```
cacatgcaca aaagacttaa ctagctttac atttagcagt cagttggtta gattaggttt 600
catagtaaat gaataggaat agaaagaata ggaagtgttt ttattttcca gtagtaattc 660
cgtggattcc atttgaccca gtttactatc agttcagttc aggtagattt ggttcaactt 720
ttggtggttt ttggctctag gatattcttg actttaatat cctagaactt actgagtctt 780
cccttcaata aatacacttc tcacatacct ctaatcctat gcttccttga aacaataatg 840
ctagctgagt tgtttactaa ggattattat aagggcctga aggtgtggga gtggagatta 900
attaaaacct ttatgttctc caatataagg gaaaagcagg ttggtactac ttctgattag 960
gcagaaaaca ccaggattcc ttaagtgatc cttgaaatgg ttattgtttt ctgccttgtc 1020
acatttgcca ctgtgccctt taaaacgatg tggaaacctc aggtttgtgg acagcacagg 1080
tggaatgaca tcttgtgctt cctgaggctc ccctctacca ggcacattag cttagtgctt 1140
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gctggagctg gagcgcttgc actcttcagg tgactattct cacctccatt tcctccacat 1260
gcattaggtg aaactgaggt ctaagcctcc tgcaaggtct acattttaag gactcacaca 1320
tcaggctctc agaaatgtac acaggtatta gttctgtttg ttctaaagga aatgtgggta 1380
tctctcaggc caggacttag tgactagttt tcgctagaca gcaggttaat acctagatct 1440
catttaaaaa aaaaaaaaaa aaaacaggat taaagggaac tgatcaggtt tgttgagttt 1500
tttagcctaa ttccaaagca tggaagagtg ctctaggtag gaaagaaagc tttttcttac 1560
gatttgtagc tacctactgt gcctgacttg gtgcctgtgt gaggattaag cccttagtct 1620
gctcttgcaa ttattcaaat gacaaattaa atttgctttt gtaataacaa taaaagttgt 1680
catcttccct tttgaaaaaa aaaaaaaaaa aaaaaag                         1717
```

```
<210> 464
<211> 828
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (787)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (819)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (827)
<223> n equals a,t,g, or c

<400> 464
ggcacgagag atggcggcgc aacagcggga ctgcgggggt gctgcgcagc tggcggggcc 60
ggcggcggag gctgaccccc taggacgctt cacgtgtccc gtgtgcttag aggtgtacga 120
gaagccggta caggtgccct gcggacacgt cttttgctct gcatgcctgc aggaatgtct 180
gaagccgaag aagcctgtct gtggggtgtg tcgcagcgct ctggcacctg gcgtccgagc 240
cgtggagctc gagcggcaga tcgagagcac agagacttct tgccatggct gccgtaagaa 300
tttcttcctg tccaagatcc ggtcccacgt ggctacttgt tccaaatacc agaattacat 360
catggaaggt gtgaaggcca ccattaagga tgcatctctt cagccaagga atgttccaaa 420
ccgttacacc tttccttgtc cttactgtcc tgagaagaac tttgatcagg aaggacttgt 480
ggaacactgc aaattattcc atagcacgga taccaaatct gtggtttgtc cgatatgtgc 540
```

```
ctcgatgccc  tggggagacc  ccaactaccg  cagcgccaac  ttcagagagc  acatccagcg  600
ccggcaccgg  ttttcttatg  acacttttgt  ggattatgat  gttgatgaag  aggacatgat  660
gaatcaggtg  ttgcagcgct  ccatcatcga  ccagtgagca  gagtccgtgc  ttgctatctg  720
tctcatgtta  cagagcttcc  attacatatt  aaacgtgaaa  tctatgaaaa  aaaaaaaggg  780
ggggggnccc  ggttacccca  atttcggccc  tattaggtna  agtcgtna          ·    828
```

<210> 465
<211> 1173
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (137)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1166)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1171)
<223> n equals a,t,g, or c

<400> 465

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ggtcgttact  ctctgaccta  tatctacact  gggctgtcca  agcatgttga  agacgtcccc  120
gcgtttcagg  cccttgntca  ctcaatgacc  tccagttctt  tagatacaac  agtaaagaca  180
ggaagtctca  gcccatggga  ctctggagac  aggtggaagg  aatggaggat  tggaagcagg  240
acagccaact  tcagaaggcc  agggaggaca  tctttatgga  gaccctgaaa  gacatygtgg  300
agtattacaa  cgacagtaac  gggtctcacg  tattgcaggg  aaggtttggt  tgtgagatcg  360
agaataacag  aagcagcgga  cattctggaa  atattactat  gatggaaagg  actacattga  420
attcaacaaa  gaaatcccag  cctgggtccc  cttcgaccca  gcagcccaga  taaccaagca  480
gaagtgggag  gcagaaccag  tctacgtgca  gcgggccaag  gcttacctgg  aggaggagtg  540
ccctgcgact  ctgcggaaat  acctgaaata  cagcaaaaat  atcctggacc  ggcaagatcc  600
tccctctgtg  gtggtcacca  gccaccaggc  cccaggagaa  aagaagaaac  tgaagtgcct  660
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ggtggtggca  gtgccccgc  aggacacagc  ccctactcc   tgccacgtgc  agcacagcag  840
cctggcccag  cccctcgtgg  tgcctggga   ggccagctag  gaagcaaggg  ttggaggcaa  900
tgtgggatct  cagacccagt  agctgcgctt  cctgcctgat  gtgggagctg  aaccacagaa  960
atcacagtca  atggatccac  aaggcctgag  gagcagtgtg  ggggacaga   caggaggtgg  1020
atttggagac  cgaagactgg  gatgcctgtc  ttgagtagac  ttggacccaa  aaaatcatct  1080
caccttgagc  ccaccccac   cccattgtct  aatctgtaga  agctaataaa  taatcatccc  1140
```

```
tccttgccta gcaaaaaaaa aaaaangngg ngg                              1173
```

```
<210> 466
<211> 521
<212> DNA
<213> Homo sapiens

<400> 466
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agcagaagaa gaagcggacc ttccgcaagt tcacctaccg cggcgtggac ctcgaccagc 120
tgctggacat gtcctacgag cagctgatgc agctgtacag tgcgcgccag gcggcggctg 180
aaccgggggcc tgcggcggaa gcagcactcc ctgctgaagc gcctgcgcaa ggccaagaag 240
gaggcgccgc ccatggagaa gccggaagtg gtgaagacgc acctgcggga catgatcatc 300
ctacccgaga tggtgggcag catggtgggc gtytacaacg gcaagacctt caaccaggtg 360
gagatcaagc ccgagatgat cggccactac ctgggcgagt tctccatcac ctacaagccc 420
gtaaagcatk gccggcccgg catcggggcc acccactsct cccgmttcat ccctctcaag 480
taatggctca gytaataaag gcgsacatga ctccaaaaaa a                     521
```

```
<210> 467
<211> 1428
<212> DNA
<213> Homo sapiens

<400> 467
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gtacccggtg gctggggcac acagcagccc cccaaaggcc cgcttcctgc gggttcccag 120
tgagcaccct tacctgaccc catcccccga atccctgag cactgggcca gcccctcacc 180
tccctccctc tcagactggt ccgaatccac gcctagccca gccactgcca ctggggccat 240
ggccaccacc actggggcac tgcctgccca gccacttccc ttgtctgttc ccagctccct 300
tgctcaggcc cagaccagc tggggcccca gccggaagtt accccaaga ggcaagtgtt 360
ggcctgagac gctcgtcagt tcttagatct tgggggccta aagagacccc cgtcctgcct 420
cctttctttc tctgtctctt ccttccttt agtcttttc atcctcttct ctttccacca 480
accctcctgc atccttgcct tgcagcgtga ccgagatagg tcatcagccc agggcttcag 540
tcttccttta tttataatgg gtgggggcta ccacccaccc tgctcagtct tgtgaagagt 600
ctgggacctc cttcttcccc acttctctct tccctcattc ctttctctct ccttctggcc 660
tctcatttcc ttacactctg acatgaatga attattatta ttttctttt tctttttttt 720
tttacatttt gtatagaaac aaattcattt aaacaaactt attattatta tttttacaa 780
aatatatata tggagatgct ccctcccct gtgaacccc cagtgccccc gtgggctgag 840
tctgtgggcc cattcggcca agctggattc tgtgtaccta gtacacaggc atgactggga 900
tcccgtgtac cgagtacacg acccaggtat gtaccaagta ggcacccttg ggcgcaccca 960
ctggggccag gggtcggggg agtgttggga gcctcctccc caccccacct ccctcacttc 1020
actgcattcc agattggaca tgttccatag ccttgctggg gaagggccca ctgccaactc 1080
cctctgcccc agccccaccc ttggccatct cccttggga actaggggc tgctggtggg 1140
aaatgggagc cagggcagat gtatgcattc ctttatgtcc ctgtaaatgt gggactacaa 1200
gaagaggagc tgcctgagtg gtactttctc ttcctggtaa tcctctggcc cagccttatg 1260
gcagaataga ggtatttta ggctatttt gtaatatggc ttctggtcaa aatccctgtg 1320
tagctgaatt cccaagccct gcattgtaca gcccccact ccctcacca cctaataaag 1380
gaatagttaa cactcaaaaa aaaaaaaaa aaaaaacttg agggggggg              1428
```

```
<210> 468
<211> 3463
```

<220>
<221> misc feature
<222> (1187)
<223> n equals a,t,g, or c

<400> 468
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cagtgtccgg gccgagccgg tgcgccgcag actagggcgc ctcgggccag ggagcgcgga 60
ggagccatgg ccaccgctaa cggggccgtg gaaaacgggc agccggacag gaagccgccg 120
gccctgccgc gccccatccg caacctggag gtcaagttca ccaagatatt tatcaacaat 180
gaatggcacg aatccaagag tgggaaaaag tttgctacat gtaacccttc aactcgggag 240
caaatatgtg aagtggaaga aggagataag cccgacgtgg acaaggctgt ggargctgca 300
caggttgcct tccagagggg ctcgccatgg cgccggctgg atgccctgag tcgtgggcgg 360
ctgctgcacc agctggctga cctggtkgar agggaccgcg ccaccttggc cgccctggag 420
acgatggata cagggaagcc atttcttcat gcttttttca tcgacctgga gggctgtatt 480
agaaccctca gatactttgc agggtgggca gacaaaatcc agggcaagac catccccaca 540
gatgacaacg tgtgtgcttc accaggcatg agcccattgg tgtctgtggg gccatcactc 600
catggaactt cccctgctg atgctggtgt ggaagctggc acccgccctc tgctgtggga 660
acaccatggt cctgaagcct gcggagacac ctctcaccgc cctttatctc ggctctctga 720
tcaaagaggc cgggttccct ccaggagtgg tgaacattgt gccaggattc gggcccacag 780
tgggagcagc aatttcttct caccctcaga tcaacaagat cgccttcacc ggctccacag 840
aggttggaaa actggttaaa gaagctgcgt cccggagcaa tctgaagcgg gtgacgctgg 900
agctgggggg gaagaacccc tgcatcgtgt gtgcggacgc tgacttggac ttggcagtgg 960
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gcagttcgac aaaatcttag agctgatcga gagtgggaag aaggaanggg ccaagctgga 1200
atgcgggggc tyagccatgg aagacaaggg gctcttcatc aaacccactg tcttctcaga 1260
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tcaaacatcg gacggcggaa tgtggcagat gaaatgtgct ggaggaaaaa aatgacattt 1680
ctgaccttcc cgggacacat tcttctggag gctttacatc tactggagtt gaatgattgc 1740
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tgtgtgttct gcaagcaggg ctcttgcacc agcggtctcc tcagggtgga cctgcttaca 2040
gagcaagcca cgcctctttc cgaggtgaag gtgggaccat tccttgggaa aggattcaca 2100
gtaaggtttt ttggtttttg ttttttgttt tcttgttttt aaaaaaagga tttcacagtg 2160
agaaagtttt ggttagtgca taccgtggaa gggcgccagg gtctttgtgg attgcatgtt 2220
gacattgacc gtgagattcg gcttcaaacc aatactgcct ttggaatatg acagaatcaa 2280
tagcccagag agcttagtca aagacgatat cacggtctac cttaaccaag gcactttctt 2340
aagcagaaaa tattgttgag gttacctttg ctgctaaaga tccaatcttc taacgccaca 2400
acagcatagc aaatcctagg ataattcacc tcctcatttg acaaatcaga gctgtaattc 2460
rctttaacaa attacgcatt tctatcacgt tcactaacag cttatgataa gtctgtgtag 2520
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tcttccttt  ctccagttct  gttacccaat  ttagattagt  aaagcgtaca  caactggaaa  2580
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gtatttcact  ggcaggttgt  gaatttttct  tttcctcttt  ggggatccaa  atgatgatgt  2760
gcaatttcat  gttttaactt  gggaaactga  aagtgttccc  atatagcttc  aaaaacaaaa  2820
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aagtagtgct  taagtttgca  aattaagttg  gggagggcaa  taataaaatg  agggcccgta  2940
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gataatgtct  ttaatatgaa  atgctacatt  atttataatt  ggtagagtta  ttgtatcttt  3240
ttatagttgt  aagtacacag  aggtggtata  tttaaacttc  tgtaatatac  tgtatttaga  3300
aatggaaata  tatatagtgt  taggtttcac  ttctttaag  gtttacccct  gtggtgtggt  3360
ttaaaaatct  ataggcctgg  gaattccgat  cctagctgca  gatcgcatcc  cacaatgcga  3420
gaatgataaa  ataaaattgg  atatttgaga  aaaaaaaaa  aaa                    3463
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<210> 469
<211> 621
<212> DNA
<213> Homo sapiens

<400> 469
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atggagaagg  tccaggacac  gtgggtgggg  gaagctgagc  gctgagacca  agggctaaag  60
ctgggagact  gaaaaaatgc  agaccgccgg  ggcattattc  atttctccag  ctctgatccg  120
ctgttgtacc  aggggtctaa  tcaggcctgt  gtctgcctcc  ttcttgaata  gcccagtgaa  180
ttcatctaaa  cagccttcct  acagcaactt  cccactccag  gtggccagac  gggagttcca  240
gaccagtgtt  gtctcccggg  acattgacac  agcagccaag  tttattggtg  ctggggcagc  300
cacagttggt  gtggctggtt  cagggctgg  cattggaacc  gtgtttggca  gcttgatcat  360
tggctatgcc  aggaacccgt  ctctcaagca  gcagctcttc  tcctatgcca  ttcttggctt  420
tgccctgtct  gaggccatgg  ggctttctg  tttgatggtc  gccttcctca  tcctcttcgc  480
catgtgaggc  tccatggggg  gtcaccggcc  tgttgctact  gcaactccac  accattcttg  540
gtgctggggt  gtgttaagct  ttaccattaa  acacaacgtt  tctctaaaaa  aaaaaaaaa  600
aaaaaaaaaa  aaaaaaaaa  a                                              621
```

<210> 470
<211> 1833
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c

<220>

<210> misc feature
<222> (524)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1798)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1812)
<223> n equals a,t,g, or c

<400> 470
tacgaccgac gagccggtgt cgtggtcgcg gtacctgttc caacacggct cgcgggcccg 60
tgccggctcc ggtccccggc gcggctgtcc gagcccctgc ggcgggcgga cgatggtgtg 120
gcggancacg cagacgcggg cggcmgcggc ggcgggcatg aaggaggatg gaagggcagg 180
acgaggtgtc ggcgcgggag cagcacttcc acagccaagt gcgggagtcc acgatatgtt 240
tccttctttt tgccattctc tacgttgttt cctacttcat catcacaaga tacaagagaa 300
aatcagatga acaagaagat gaagatgcca tcgtcaacag gatttcgttg tttttgagca 360
cgttcactct cgcagtgtca gctggngctg ttttgctttt acccttctca atcatcagca 420
atgaaatcct gctttctttt cctcagaact actatattca gtggctaaat ggctccctga 480
ttcatggttt gtggaatctt gcttcccttt tttccaacct ttgnttattt gtattgatgc 540
cctttgcctt tttctttctg gaatcagaag gctttgctgg cctgaaaaag ggaatccgag 600
cccgcatttt agagactttg gtcatgcttc ttcttcttgc gttactcatt cttgggatag 660
tgtgggtagc ttcagcactc attgacaacg atgccgcaag catggaatct ttatatgatc 720
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tgaagccaac aattcttgaa gacctggatg aacaaattta tatcattacc ttagaggaag 900
aagcactcca gagacgacta aatgggctgt cttcatcggt ggaatacaac ataatggagt 960
tggaacaaga acttgaaaat gtaaagactc ttaagacaaa attagatcct tggagttctt 1020
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gggaaagaaa tttggtgtat cccgctgtta tggttctcct tcttattgag acatccatct 1260
cggtcctctt ggtggcttgt aatattcttt gcctattggt tgatgaaaca gcaatgccaa 1320
aaggaacaag ggggsctgga ataggaaatg cctctctttc tacgtttggt tttgtgggag 1380
ctgcgcttga aatcattttg attttctatc ttatggtgtc ctctgttgtc ggcttctata 1440
gccttcgatt ttttggaaac tttactccca agaaagatga cacaactatg acaaagatca 1500
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gaccgagaac tccagattca cgacattcct gtcccatgta gaagcatttc cattcatccg 1740
tgggccctct tcagaaccta gamctatcag tggcattttt ttttcataat ctacgaanaa 1800
cttggctatg gntgatcttt tttaaattta act   1833

<210> 471
<211> 3202
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (3160)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (3180)
<223> n equals a,t,g, or c


<400> 471
cggnacgcgt gggactgcaa cggagagact caagatgatt ccctttttac ccatgttttc 60
tctactattg ctgcttattg ttaaccctat aaacgccaac aatcattatg acaagatctt 120
ggctcatagt cgtatcaggg gtcgggacca aggcccaaat gtctgtgccc ttcaacagat 180
tttgggcacc aaaaagaaat acttcagcac ttgtaagaac tggtataaaa agtccatctg 240
tggacagaaa acgactgtgt tatatgaatg ttgccctggt tatatgagaa tggaaggaat 300
gaaaggctgc ccagcagttt tgcccattga ccatgtttat ggcactctgg gcatcgtggg 360
agccaccaca acgcagcgct attctgacgc ctcaaaactg agggaggaga tcgagggaaa 420
gggatccttc acttactttg caccgagtaa tgaggcttgg gacaacttgg attctgatat 480
ccgtagaggt ttggagagca acgtgaatgt tgaattactg aatgctttac atagtcacat 540
gattaataag agaatgttga ccaaggactt aaaaaatggc atgattattc cttcaatgta 600
taacaatttg gggcttttca ttaaccatta tcctaatggg gttgtcactg ttaattgtgc 660
tcgaatcatc catgggaacc agattgcaac aaatggtgtt gtccatgtca ttgaccgtgt 720
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cgagatcatc aagccagcag agaaatccct ccatgaaaag ttaaaacaag ataagcgctt 1560
tagcaccttc ctcagcctac ttgaagctgc agacttgaaa gagctcctga cacaacctgg 1620
agactggaca ttatttgtgc caaccaatga tgcttttaag ggaatgacta gtgaagaaaa 1680
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aaaagaatct gacatcatga caacaaatgg tgtaattcat gttgtagata aactcctcta 1920
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atacatccaa attaagtttg ttcgtggtag caccttcaaa gaaatccccg tgactgtcta 2040
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tactggaggt ggagaaacag aagaaactct gaagaaattg ttacaagaag aggtcaccaa 2220
ggtcaccaaa ttcattgaag gtggtgatgg tcatttattt gaagatgaag aaattaaaag 2280
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gttgtgaact gttatcccat tgaaaagacc gagccttgta tgtatgttat ggatacataa 2760
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tacttcaaat tgagtaattc agaaaaactc aagatttaag ttaaaaagtg gtttggactt 3060
gggaacagga ctttatacct cttttactgt aacaagtact cattaaagga aattgaatga 3120
aaaaaaaaaa aaaaaagggg cgggccgctc taagagggtn ccctcgaggg gggcccaagn 3180
tttacgcggg gcatgccgac gt                                          3202
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<210> 472
<211> 941
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (927)
<223> n equals a,t,g, or c

<400> 472
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gttccaagtg cccccttactg acccgagaga cgtcattgcc gcagagggac ctatgggcgc 60
atataggttg taatgaaact gtagtctcag ttggaagcct agacatgaaa tgggtcagtg 120
agcaaggctc tattcctagt ctccagccat gcctgtggca acctgagccc gctctcagca 180
cattggaccc aggcagatgy aaaaaattca cagaactatg atttggactc aagggtttgt 240
agatttcctc cttcattcta atttcagtgt ctaaaattct tgcatccrtg aacgagctgg 300
gcatttgatg agacagggcy gaatactgca gttttcctcc tagaaatcmt ctgggcatt 360
ttctttgaac tgatgggaac aataaggcat aactgtttgc acaaacttgg gataartgat 420
tttgggataa cgatctacca gaatggggat atttcaccct tggttctgag atgcaaacca 480
aagaatatca tgaccagctt tcaggcctcc tgaagtatat ctctcacatt gtcctgttct 540
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gtgaattggc ttatttttgtc tgtccctgtc tgaatgtatt gcaggaatta aaaaggacca 660
agaagaggaa gaagaccaag gcccaccatg ccccaggctc agcagggagc tgctggaggt 720
agtagagcct gaagtcttgc aggactcact ggatagatgt tattcaactc cttccagttg 780
tcttgwaaca gcctgactcc tgccwgccct ayrgaagttc cttttatgca ttggaggaaa 840
aacatgttgg cttttctctt ggacgtggga gaaattgaaa agaaggggaa ggggaagaaa 900
agaaggggaa gaagatcaaa gaaggganaga agaaggggac g                     941
```

<210> 473
<211> 1279

400

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<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1273)
<223> n equals a,t,g, or c

<400> 473
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ggaatgagtg tgtggttgtc attagggtgg acaaagaaaa aggatatatt gatttgtcaa 120
aaagaagagt ttctccagag gaagcaatca aatgtgaaga caaattcaca aaatccaaaa 180
ctgtttatag cattcttcgt catgttgctg aggtgttaga atacaccaag gatgagcagc 240
tggaaagcct attccagagg actgcctggg tctttgatga caagtacaag agacctggat 300
atggtgccta tgatgcattt aagcatgcag tctcagaccc atctattttg gatagtttag 360
atttgaatga agatgaacgg gaagtactca ttaataatat taataggcgc ttgaccccac 420
aggctgtcaa aattcgagca gatattgaag tggcttgtta tggttatgaa ggcattgatg 480
ctgtaaaaga agccctaaga gcaggtttga attgttctac agaaaacatg cccattaaga 540
ttaatctaat agctcctcct cggtatgtaa tgactacgac aaccctggag agaacagaag 600
gcctttctgt cctcagtcaa gctatggctg ttatcaaaga gaagattgag gaaaagaggg 660
gtgtgttcaa tgttcaaatg gagcccaaag tggtcacaga tacagatgag actgaacttg 720
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aagaaatgga agccaaagct gaagattaac tttgtgggaa acagagtcca atttaaggaa 840
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ttcaaagctg aatattttttt atttctaagt atttaaatgt ctaacagat cagaacatga 960
aatgccctcc taaatgtcag ctgttgtcac acagtagctc caacactttg agcattttta 1020
agggagtggc ctcatttcac tagagacaaa tctttaagaa tagttctaaa attgggcttg 1080
tgatttccat ttctgatgtc tccagattgg caccccttttc tagttcaatg cctcacgaga 1140
tttnccaggg gcatccaagg caaacaatcc caatctttct atataaaatg tattcaagca 1200
aacatcaaat aaatttctgg gatatttaaa aaaaaaaaaa aaaaggggg gggccttaaa 1260
gaaccaagtt tantttggg                                             1279

<210> 474
<211> 3209
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c

<400> 474
caactcccgg gacacatcct tcgagcagca tgtgctgtgg caacgggcgg gaagggcgtt 60
gacctggtct tgaactcctt ggcggaagag aagctgcarg ccagcgtgag gtgcttggct 120
acgcacggtc gcttcctgga aattggcaaa ttcgaccttt ctcagaacca mccgctcggc 180
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atggctatct tcctgaagaa cgtgacatcc acggggtcct actggatgcg ttcttcaaac 240
gagagcagtg ctgactggcg ggaggtgtgg gcgcttgtgc aggccggcat ccgggatggg 300
gtggtacggc ccctcaagtg cacggtgttc catggggccc aggtggagga cgccttccgc 360
tacatggccc aagggaagca cattggcaaa gtcgtcgtgc aggtgcttgc ggaggagccg 420
gasagtngct gaagggggcc aaacccaagc tgatgtcggc catctccaag accttctgcc 480
cggcccacaa gagctacatc atcgctggtg gtctgggtgg cttcggcctg gagttggcgc 540
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caggctacca ggccaagcag gtccgccggt ggaggcgcca gggcgtacag gtgcaggtgt 660
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tgggcccgtg ggcggcgtct tcaacctggc cgtggtcttg agagatggct tgctggagaa 780
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gcattgctgg tagagacccc caggcctgtc caccctgcca agactcctca ggcagcgtgt 2760
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aaaaaaaaaa aaaaaaaama mgcgtccgc                                   3209
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<210> 475
<211> 833
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<400> 475
accaccgang tggangaccg actactgana actagtggat cccccgggac tgacaggnaa 60
ttcggacacg agncagagat ggctcccaat gcttcctgcc tctgtgtgca tgtccgttcc 120
gaggaatggg atttaatgac ctttgatgcc aacccatatg acagcgtgaa aaaaatcaaa 180
gaacatgtcc ggtctaagac caaggttcct gtgcaggacc aggttctttt gctgggctcc 240
aagatcttaa agccacggag aagcctctca tcttatggca ttgacaaaga gaagaccatc 300
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gtgaaagcaa tgatcgagac taagacgggt ataatccctg agacccagat tgtgacttgc 480
aatggaaaga gactggaaga tgggaagatg atggcagatt acggcatcag aaaggcaac 540
ttactcttcc tggcatstta ttgtattgga gggtgaccac cctgggcatg gggtgttggc 600
aggggtcaaa aagcttattt cttttaatct cttactcaac gaacacatct tctgatgatt 660
tcccaaaatt aatgagaatg agatgagtag agtaagattt gggtgggatg ggtaggatga 720
agtatattgc ccaactctat gtttctttga ttctaacaca attaattaag tgacatgatt 780
tttactaatg tattactgag actagtaaat aaattttaa ggcaaaatag agc      833

<210> 476
<211> 1141
<212> DNA
<213> Homo sapiens
```

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<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<400> 476
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tgacagcgtt taacaaagct tagagaaacc tccaggagac tgctatcatg gcagagaagc 180
ccaagctcca ctacttcaat gcacggggca gaatggagtc cacccggtgg ctcctggctg 240
cagctggagt agagtttgaa gagaaattta taaaatctgc agaagatttg gacaagttaa 300
gaaatgatgg atatttgatg ttccagcaag tgccaatggt tgagattgat gggatgaagc 360
tggtgcagac cagagccatt ctcaactaca ttgccagcaa atacaacctc tatgggaaag 420
acataaagga gagagccctg attgatatgt atatagaagg tatagcagat ttgggtgaaa 480
tgatcctcct tctgcccgta tgtccacctg aggaaaaaga tgccaagctt gccttgatca 540
aagagaaaat aaaaaaatcgc tacttccctg cctttgaaaa agtcttaaag agccatggac 600
aagactacct tgttggcaac aagctgagcc gggctgacat tcatctggtg gaacttctct 660
actacgtcga ggagcttgac tccagtctta tctccagctt ccctctgctg aaggccctga 720
aaaccagaat cagcaacctg cccacagtga agaagtttct acagcctggc agcccaagga 780
agcctcccat ggatgagaaa tctttagaag aagcaaggaa gattttcagg ttttaataac 840
gcagtcatgg aggccaagaa cttgcaatac caatgttcta aagtttttgca acaataaagt 900
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gatctgatgt gaattcagat ttccaatctt ctcctagcca accattttcc tggaattaaa 1080
aattcagtaa aaaaggaaaa aaaaaaaaa aaaaaaaaaa aaaaaaaaa aaaaaaaaag 1140
g                                                                1141

<210> 477
<211> 1102
<212> DNA
<213> Homo sapiens

<400> 477
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agtccattgg caagtttggc ctggccttag ctgttgcagg aggcgtggtg aactctgcct 180
tatataatgt ggatgctggg cacagagctg tcatctttga ccgattccgt ggagtgcagg 240
acattgtggt aggggaaggg actcattttc tcatcccgtg ggtacagaaa ccaattatct 300
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tcaccagcat cggagaggac tatgatgagc gtgtgctgcc gtccatcaca actgagatcc 480
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ccaggcaggt gagcgacgac cttacagagc gagccgccac ctttgggctc atcctggatg 600
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tcctccagct gccccagtga gggcccaccc tgcctgcacc tccgcgggct gactggccac 960
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tttcatgatt ggcttaaagt gaaggaaata aaggtaaaat cacttcagaa aaaaaaaaa 1080
aaaaaaaacc ccggggggg gc                                         1102
```

<210> 478
<211> 4201
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4077)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4161)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4186)
<223> n equals a,t,g, or c

<400> 478
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cctcccgctg ctgctgccgc tgccgccctg agtcactgcc tgcgcagctc cggccgcctg 120
gctccccata ctagtcgccg atatttggag ttcttacaac atggcagaca ttgacaacaa 180
agaacagtct gaacttgatc aagatttgga tgatgttgaa gaagtagaag aagaggaaac 240
tggtgaagaa acaaaactca aagcacgtca gctaactgtt cagatgatgc aaaatcctca 300
gattcttgca gcccttcaag aaagacttga tggtctggta gaaacaccaa caggatacat 360
tgaaagcctg cctagggtag ttaaaagacg agtgaatgct ctcaaaaacc tgcaagttaa 420
atgtgcacag atagaagcca aattctatga ggaagttcay gatcttgaaa ggaagtatgc 480
tgttctctat cagcctctat ttgataagcg atttgaaatt attaatgcaa tttatgaacc 540
tacggaagaa gaatgtgaat ggaaaccaga tgaagaagat gagatttcgg aggaattgaa 600
agaaaaggcc aagattgaag atgagaaaaa ggatgaagaa aaagaagacc ccaaaggaat 660
tcctgaattt tggttaactg ttttttaagaa tgttgacttg ctcagtgata tggttcagga 720
acacgatgaa cctattctga agcacttgaa agatattaaa gtgaagttct cagatgctgg 780
ccagcctatg agttttgtct tagaatttca ctttgaaccc aatgaatatt ttacaaatga 840
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tgagagtgga gatctggatg atgatgctga agctatcctt gctgcagact tcgaaattgg 1140
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tgaagatgat gatgatgatt atgatgaaga aggtgaagaa gcggatgagg gttatcagct 1260
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aaattaaatt gtattatcat caaagtctgt aatcatgaaa atctgttgat ccgtagagta 1440
acttgtatta aattttccct acattatgag ccagtttacc tactatgtac atacttcatg 1500
gatgcatttt gaactttaat ataggaaggg gaagaagaag gagatgagga aaatgatcca 1560
gactatgacc caaagaagga tcaaaaccca gcagagtgca agcagcagtg aagcaggatg 1620
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tatgtggcct tgaggataac ctgcactggt ctaccttctg cttccctgga aaggatgaat 1680
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aacacattgt tgaagaaaag gtaccagctt tggaacgaga tgctatacta ataagcaagt 1920
gtaaaaaaaa aaaaaaaaga ggaagaaaat cttaagtgat tgatgctgtt ttcttttaaa 1980
aaaaaaaaaa taaaattcat tttctttggg ttagagctag agagaaggcc ccaagcttct 2040
atggtttctt ctaattctta ttgcttaaag tatgagtatg tcacttaccc gtgcttctgt 2100
ttactgtgta attaaaatgg gtagtactgt ttacctaact acctcatgga tgtgttaagg 2160
catattgagt taaatctcat ataatgtttc tcaatcttgt taaaagctca aaattttggg 2220
cctatttgta atgccagtgt gacactaagc attttgttca caccacgctt tgataactaa 2280
actggaaaac aaaggtgtta agtacctctg ttctggatct gggcagtcag cactcttttt 2340
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aagatttgtt ttcagatatt tttgatgact gtattgtaaa tactacaggg atagcactat 2460
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gttgaacttt tttttgacag tgagggtgga ttattggatt gtcattagag gaaggtctag 2640
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actcaagtag ggtaagtgtt ccacaaattc cacaagttga tagtttaaca tggatgtctg 3660
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tattagcatc actattttag attgcaaaaa taccttaatt gtgtggaact ggcttgtaga 3780
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tttatggggt tagtcttaca aaaatttaag cctttatatt tttgacttta aatcaaaacc 4140
aaatgttatt ttaaatgtac nggaatwgga ttgggtaggt gcmggnagga rtgtwaggtt 4200
c                                                                  4201
```

<210> 479
<211> 787
<212> DNA
<213> Homo sapiens

<220>

```
<221> misc feature
<222> (780)
<223> n equals a,t,g, or c

<400> 479
gcagagcgca tgctctctct tgcccgagat gccgaggatt ttgacaagga ctccgtcgtc 60
ccggatgata gtgctcaggt taatgccagt gggagggcgg cgcccaatag taacttcctt 120
tggaggttgt agtaccgccc ccagagccaa ttttccactt ccgcktccgg cgctgcggca 180
gtccagatca aaaatggcgg tagttggtgt gtcctcggtt tctcggctgc tgggtcggtc 240
ccgcccacag ctggggcggc ctatgtcgag tggcgcccat ggcgaagagg gctcagctcg 300
catgtggaag actctcacct tcttcgtcgc gctccccggg gtggcagtca gcatgctgaa 360
tgtgtacctg aagtcgcacc acggagagca cgagagaccc gagttcatcg cctaccccca 420
tctccgcatc aggaccaagc cgtttccctg gggagatggt aaccatactc tattccataa 480
ccctcatgtg aatccacttc caactggcta cgaagatgaa taaagagaat ctggaccact 540
acccgggcac cagggaccac agcactggtt tggaccgtta ctctgcacat ggaccagaaa 600
aagtatatgg gaccttaagc tcaccttctt tacttgtatc aaatgatgac tggtatactg 660
gtctcccatc cctttgcttg tggcaggaga tggcttaaat aaataactta aayttaaaaa 720
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaactn 780
ggggccg                                                          787

<210> 480
<211> 731
<212> DNA
<213> Homo sapiens

<400> 480
gaaaacccag gcagccagcg tggaggctgt taagatgctg gatgagatcc tcctgcagct 60
gagcgcctca gtgcccgtgg acgtgatgcc aggcgagttt gatcccacca attacacgct 120
cccccagcag cccctccacc cctgcatgtt cccgctggcc actgcctact ccacgctcca 180
gctggtcacc aacccctacc aggccaccat tgatggagtc agatttttgg ggacatcagg 240
acagaacgtg agtgacattt tccgatacag cagcatggag gatcacttgg agatcctgga 300
gtggaccctj cgggtccgtc acatcagccc cacagcccct gacactctag gttgttaccc 360
cttctacaaa actgacccgt tcatcttccc agagtgcccg catgtctact tttgtggcaa 420
cacccccagc tttggctcca aaatcatccg aggtcctgag gaccagacag tgctgttggt 480
gactgtccct gacttcagtg ccacgcagac cgcctgcctt gtgaacctgc gcagcctggc 540
ctgccagccc atcagcttct cgggcttcgg ggcagaggac gatgacctgg gaggccttgg 600
ctgggcccct gactcaaaaa agtggttttg accagagagg cccagatgga ggctgttcat 660
tccctgcagt gtcggcattg taaataaagc ctgagcactt gctgatgcga aaaaaaaaaa 720
aaaaaaaaaa a                                                     731

<210> 481
<211> 1119
<212> DNA
<213> Homo sapiens

<400> 481
aataacgtgg caaccaccca cgagcccgcg tcggtgcccg ccccgcaggg ggacctacta 60
tccggcgccg agccggaggg gggaaacgrc gcccgccgcc cgcccggagc ccgcgagcaa 120
ccccagtccc ccccacccgc gcgtggcggc gccggctccc tagccaccgs ggccccaccc 180
tcttccggcc tcagctgtcc gggctgcttt cgcctccgcc tgtggatgct gcgcctctcc 240
gaacgcaaca tgaaggtgct ccttgccgcc gccctcatcg cggggtccgt cttcttcctg 300
```

```
ctgctgccgg gaccttctgc ggccgatgag aagaagaagg ggcccaaagt caccgtcaag 360
gtgtattttg acctacgaat tggagatgaa gatgtaggcc gggtgatctt tggtctcttc 420
ggaaagactg ttccaaaaac agtggataat tttgtggcct tagctacagg agagaaagga 480
tttggctaca aaaacagcaa attccatcgt gtaatcaagg acttcatgat ccagggcgga 540
gacttcacca ggggagatgg cacaggagga aagagcatct acggtgagcg cttccccgat 600
gagaacttca aactgaagca ctacgggcct ggctgggtga gcatggccaa cgcaggcaaa 660
gacaccaacg gctcccagtt cttcatcacg acagtcaaga cagcctggct agatggcaag 720
catgtggtgt ttggcaaagt tctagagggc atggaggtgg tgcggaaggt ggagagcacc 780
aagacagaca gccgggataa acccctgaag gatgtgatca tcgcagactg cggcaagatc 840
gaggtggaga agccctttgc catcgccaag gagtagggca cagggacatc tttctttgag 900
tgaccgtctg tgcaggccct gtagtccgcc acagggctct gagctgcact ggccccggtg 960
ctggcatctg gtggagcgga cccactcccc tcacattcca caggcccatg gactcacttt 1020
tgtaacaaac tcctaccaac actgaccaat aaaaaaaaat gtgggttttt ttttttttta 1080
ataaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagg                        1119
```

```
<210> 482
<211> 2056
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (137)
<223> n equals a,t,g, or c

<400> 482
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gcgcccgggc ccgcgacccc cgcacccagc tccgcagacc ggcgggcgcg cgcgggctct 120
ggaggccacg ggcatgnatg cttcgggtcc tggtgggggc tgtcctccct gccatgctac 180
tggctgcccc accacccatc aacaagctgg cactgttccc agataagagt gcctggtgcg 240
aagcaagaac atcacccaga tcgtgggcca cagcggctgt gaggccaagt ccatccagaa 300
cagggcgtgc ctaggacagt gcttcagcta cagcgtcccc aacaccttcc cacagtccac 360
agagtccctg gttcactgtg actcctgcat gccagcccag tccatgtggg agattgtgac 420
gctggagtgc ccgggccacg aggaggtgcc cagggtggac aagctggtgg agaagatcct 480
gcactgtagc tgccaggcct gcggcaagga gcctagtcac gaggggctga gcgtctatgt 540
gcagggcgag gacgggccgg gatcccagcc cggcacccac cctcaccccc atccccaccc 600
ccatcctggc gggcagaccc ctgagcccga ggaccccct ggggcccccc acacagagga 660
agaggggct gaggactgag gcccccccaa ctcttcctcc cctctcatcc ccctgtggaa 720
tgttgggtct cactctctgg ggaagtcagg ggagaagctg aagcccccct ttggcactgg 780
atggacttgg cttcagactc ggacttgaat gctgcccggt tgccatggag atctgaaggg 840
gcggggttag agccaagctg cacaatttaa tatattcaag agtgggggga ggaagcagag 900
gtcttcaggg ctctttttt ggggggggggg tggtctcttc ctgtctggct tctagagatg 960
tgcctgtggg aggggagga agttggctga gccattgagt gctgggggag gccatccaag 1020
atggcatgaa tcgggctaag gtccctgggg gtgcagatgg tactgctgag gtcccgggct 1080
tagtgtgagc atcttgccag cctcaggctt gagggagggc tgggctagaa agaccactgg 1140
cagaaacagg aggctccggc cccacaggtt tccccaaggc ctctcacccc acttcccatc 1200
tccagggaag cgtcgcccca gtggcactga agtggccctc cctcagcgga ggggtttggg 1260
agtcaggcct gggcaggacc ctgctgactc gtggcgcggg agctgggagc caggctctcc 1320
gggcctttct ctggcttcct tggcttgcct ggtgggggaa ggggaggagg ggaagaagga 1380
aagggaagag tcttccaagg ccagaaggag ggggacaacc ccccaagacc atccctgaag 1440
acgagcatcc ccctcctctc cctgttagaa atgttagtgc cccgcactgt gccccaagtt 1500
```

```
ctaggccccc cagaaagctg tcagagccgg ccgccttctc ccctctccca gggatgctct 1560
ttgtaaatat cggatgggtg tgggagtgag gggttacctc cctcgcccca aggttccaga 1620
ggccctaggc gggatgggct cgctgaacct cgaggaactc caggacgagg aggacatggg 1680
acttgcgtgg acagtcaggg ttcacttggg ctctctctag ctccccaatt ctgcctgcct 1740
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ggcgggccca tgaagaaagc ccctcgttgc ccagcactgt ctgcgtctgc tcttctgtgc 1860
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cgacgcgggc ttctggagct tgtcaccatt ggacagtctc cctgatggac cctcagtctt 1980
ctcatgaata aattccttca cgccaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa 2040
aaamaggggg gggccc                                                   2056
```

<210> 483
<211> 887
<212> DNA
<213> Homo sapiens

<400> 483
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tgctacaaat aggaaggaat tgtaataatg atatttggcc tctactttgt cttagctgtt 60
aaactgtttt tagtattttt gttaaatatt tgcaaaggga agcattttct acagaggata 120
attaatttca agaaaaatat cttgagtttt aagaaataaa catctccaga aaaggagaaa 180
gtcgatttta taaaatgtcg caactctcca acatttgggg tagtgactcc ttttttgtta 240
ggacatttga aactagcaag cagccattgt ttctaaagaa ttctggcttc acattgactc 300
atgtttcttt cactccattt tgaaatagct aaaaatcatt aaaactgtaa atattttgtt 360
gcttgggtaa gcatcttctg ggactttgt atctatggta tataatcata gaatttatata 420
ttttcatata aagctaattt ttttctagtt tcaactccgt catagttktt tttcctttttt 480
gtggtggata tgtgaattca actttctgtg tattgaagta gcaaaaacca tctttacatt 540
ccaaaagaat ccaacatgtg ttatttcttt gaggcagtga ttgtgaaagt tgggttttct 600
ttttaattcc attgaccatt tgtgcaatag gaattagaca taattagtca ctgaaaacat 660
tcgtcacatt gacccatttg gaaaaagtgt gcttttttt ttttttaaa tttgttcagg 720
gggaggggtt ttgtaacctg aaatttttcc ctttttcttc tgtttaaact atatcaaatc 780
attctattat agtgttattt aatatgtaaa ttgtattgct atacataaaa taaagtatgg 840
tttttgatgt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaa             887
```

<210> 484
<211> 1878
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1446)
<223> n equals a,t,g, or c

<400> 484
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tctcctcgtg gctagttcag gcggaaggag cagtcctctg aagcttgagg agcctctaga 60
actatgagcc cgaggccttc ccctctccca gagcgcagag gctttgaagg ctacctctgg 120
gaagccgctc accgtcggaa gctgcgggag ctgaaactgc gccatcgtca ctgtcggcgg 180
ccatgacacc gctcgtytcc cgcctgaktc gtctgtgggc catcatgagg aagccacgag 240
cagccgtggg aagtggtcac aggaagcagg cagccagcca ggaagggagg cagaagcatg 300
ctaagaacaa cagtcaggcc aagccttctg cctgtgatgg cctggccagg cagccggaag 360
aggtggtatt gcaggcctct gtctcctcat accatctatt cagagacgta gctgaagtca 420
```

```
cagccttccg  agggagcctg  ctaagctggt  acgaccaaga  gaaacgggac  ctaccatgga  480
gaagacgggc  agaagatgag  atggacctgg  acaggcgggc  atatgctgtg  tgggtctcag  540
aggtcatgct  gcagcagacc  caggttgcca  ctgtgatcaa  ctactatacc  ggatggatgc  600
agaagtggcc  tacactgcag  gacctggcca  gtgcttccct  ggaggaggtg  aatcaactct  660
gggctggcct  gggctactat  tctcgtggcc  ggcggctgca  ggagggagct  cggaaggtgg  720
tagaggagct  aggggggccac  atgccacgta  cagcagagac  cctgcagcag  ctcctgcctg  780
gcgtggggcg  ctacacagct  ggggccattg  cctctatcgc  ctttggccag  gcaaccggtg  840
tggtggatgg  caacgtagca  cgggtgctgt  gccgtgtccg  agccattggt  gctgatccca  900
gcagcaccct  tgtttcccag  cagctctggg  gtctagccca  gcagctggtg  gacccagccc  960
ggccaggaga  tttcaaccaa  gcagccatgg  agctaggggc  cacagtgtgt  accccacagc  1020
gcccactgtg  cagccagtgc  cctgtggaga  gcctgtgccg  ggcacgccag  agagtggagc  1080
aggaacagct  cttagcctca  gggagcctgt  cgggcagtcc  tgacgtggag  gagtgtgctc  1140
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gagtggtcaa  cttccccaga  aaggccagcc  gcaagccccc  cagggaggag  agctctgcca  1260
cctgtgttct  ggaacagcct  ggggcccttg  gggcccaaat  tctgctggtg  cagaggccca  1320
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aagtatatgg  gctggccttg  gaagggcaga  ccccagtgac  caccgtacca  ccaggtgctc  1560
gctgctgacg  caggaggaat  ttcacaccgc  agctgtttcc  accgccatga  aaaaggtttt  1620
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ctctccgtgc  agtcggaaaa  agccccgcat  gggccagcaa  gtcctggata  atttctttcg  1740
gtctcacatc  tccactgatg  cacacagcct  caacagtgca  gcccagtgac  acctctgaaa  1800
gcccccattc  cctgagaatc  ctgttgttag  taaagtgctt  atttttgtag  ttaaaaaaaa  1860
aaaaaaaaaa  aaaaaaaa                                                   1878
```

<210> 485
<211> 1566
<212> DNA
<213> Homo sapiens

<400> 485
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ctttcatact  acccttttagt  cataaggaga  aaaaaacact  caaatagtag  aagcagcaag  60
tagcaaactt  caggagagct  actttctatc  caaataattt  aaaaaacact  tttcacctac  120
tcctttcatg  gttataacac  attggcagac  tttttgctgg  ctctgggagc  catgatttta  180
atcacattct  gcaaggtgac  aaatgtcata  cattccacat  tgtgtggtag  ccatctcttt  240
agactcatgt  gtttttgggga  aaggaagaag  ttcttggctg  agtactattt  tgaactttcc  300
agaaccctct  cacaccagag  acagttcttc  tctgttcagt  ttccaatccc  cgataatttg  360
ctaaaataac  attgtacatc  caagagaggg  aagaagagta  tgtcagtata  ttatgcagaa  420
gatagataca  gcctttttcag  aagatctcca  ctagttttttg  ttccaaaaat  tcaagtttat  480
gggagaaatc  tcaattagcc  accttttcac  agttgtgtgg  atataacatt  tgggggatct  540
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ttgtcttagc  ttgtactgct  tggtgatctc  tgaggacctt  ctaattcagt  tgtaccccag  660
tgttccatgt  atagaaaaac  ttcattagaa  caaactttac  ttgatatgaa  actcctatta  720
acagtctttt  tttgaaataa  aaagtagctt  gagctttctt  ttaaaatcat  gtatcttgat  780
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gttctctttt  tgttgttaca  ctgttgggtg  ggtataacaa  ttggaaaatg  aacaaactga  960
ttgattgtgc  aaactacttt  ttatgacaag  cctaaaccct  cataatgcgg  cagcttaaag  1020
tgtatacata  tgcactaact  ttgatcaatt  atattctcat  atctgttagc  tacacagtct  1080
cctattatct  caattgctta  tgtgcatatg  gaatatgtta  cttaaaacgt  gtgcattctt  1140
```

```
actgaaaatg ttttcaaagg aaggtatcag ctgtgggcta attgccacca atttcagcct 1200
gccacgattc ttggaaatat gtcttccaag tgccatccat catcagtagg acaagtgtcg 1260
ggagtttgtt tattttttttc cagtagcaac gatgggttac atggagccat gaaacctcct 1320
tctggcctcc cttgtgatta atggcatgtg tttgtaaaat ggatagctgg ggttggcaga 1380
tggctagaga agaatcgcct ttggtttaaa atgtatgtgg tcccctaatg attgtgaccc 1440
cattctgtaa tcaactgagc tagttccaat aaagttaagc aggtttaaat ccactttgtg 1500
cctatctttt cactgacaat aaagttagct attttaaaat gcaaaaaaaa aaaaaaaaa 1560
aaaatt                                                           1566
```

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<210> 486
<211> 3046
<212> DNA
<213> Homo sapiens
```

```
<400> 486
gtcgacccac gcgtccggac accgccgcag ttgccggtac atcggggatt tctggctctt 60
tcctcttcgc cttaaattcg ggtgtctttt atgaataatc aaaagcagca aaagccaacg 120
ctatcaggcc agcgttttaa aactagaaaa agagatgaaa aagagaggtt tgaccctact 180
cagtttcaag actgtattat tcaaggctta actgaaaccg gtactgattt ggaagcagta 240
gctaagtttc ttgatgcttc tggagcaaaa cttgattacc gtcgatatgc agaaacactc 300
tttgacattc tggtggctgg tggaatgctg gccccaggtg gtacactggc agatgacatg 360
atgcgtacag atgtctgcgt gtttgcagcc caagaagatc tagagaccat gcaagcattt 420
gctcaggttt ttaacaagtt aatcaggcgc tacaaatacc tggagaaagg ttttgaagat 480
gaagtaaaaa agctgctgct gttcttgaag ggttttttcag agtcggagag aacaagcta 540
gctatgttga ctggtgttct tctggctaat ggaacactta atgcatccat tcttaatagc 600
ctttataatg aaaatttggt taaagaagga gtttcagcag cttttgctgt gaagctcttt 660
aaatcatgga taaatgaaaa agatatcaat gcagtagctg caagtcttcg gaaagtcagc 720
atggataaca gactgatgga actctttcct gccaataagc aaagtgttga acacttcaca 780
aaatatttta ctgaggcagg cttgaaagag ctttcagaat atgttcggaa tcagcaaacc 840
atcggagctc gtaaggagct ccagaaagaa cttcaagaac agatgtcccg tggtgatcca 900
tttaaggata taattttata tgtcaaggag gagatgaaaa aaaacaacat cccagagcca 960
gttgtcatcg gaatagtctg gtcaagtgta atgagcactg tggaatggaa caaaaaagag 1020
gagcttgtag cagagcaagc catcaagcac ttgaagcaat acagccctct acttgctgcc 1080
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gacaacattc atttcatgaa agccttccag aaaatagtgg tgcttttta taaagctgaa 1200
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gaggtggtgg gaagaagaaa gttgagcttt ttccccttga gaaacttctg catttagttt 2100
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```

```
<210> 487
<211> 1904
<212> DNA
<213> Homo sapiens
```

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<400> 487
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cttactgcgg gccgctccga cggcggtcca tcctgtcagg gactatgcgg cgcaaacatc 240
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aatcaaaatt cctgttggtc ctgagacttt gggcagaatc atgaatgtca ttggagaacc 540
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ccagcagatt ttggcaggtg aatatgacca tctcccagaa caggccttct atatggtggg 1620
acccattgaa gaagctgtgg caaaagctga taagctggct gaagagcatt catcgtgagg 1680
ggtctttgtc ctctgtactg tctctctcct tgcccctaac ccaaaaagct tcattttct 1740
```

412

```
gtgtaggctg cacaagagcc ttgattgaag atatattctt tctgaacagt atttaaggtt 1800
tccaataaaa tgtacacccc tcaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1860
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa           1904
```

<210> 488
<211> 827
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (826)
<223> n equals a,t,g, or c

<400> 488
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tcccagcggg cagtaactaa ccatagcgtc tactgctcca ccaagggtgc cctggacatg 420
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cccacagtgg tgatgacgtc catgggccag gccacctgga gtgaccccca caaggccaag 540
actatgctga accgaatccc acttggcaag tttgctgagg tagagcacgt ggtgaacgcc 600
atcctctttc tgctgagtga ccgaagtggc atgaccacgg gttccacttt gccggtggaa 660
gggggcttct gggcctgctg agctccctcc acacacctca agccccatgc cgtgctcatc 720
ctacccccaa tccctccaat aaacctgatt ctgctgccca aaaaaaaaaa aaaaaaaaaa 780
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaana           827
```

<210> 489
<211> 1926
<212> DNA
<213> Homo sapiens

<400> 489
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agcccggcct cggtggcagt ggactcgggc tctgaactca acagccgctc ctccacgctc 180
tcctccagct ccatgtcctt gtcgcccaaa ctctgcgcgg agaaagaggc ggccaccagc 240
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agcgcgtccc cgtagacccg tcccagacac gtcttttcat tccagtccag ttcaggctgc 360
cgtgcacttt gtcggatata aaataaacca cgggcccgcc atggsgttas ccttcctttt 420
gcagttgcgt ctgggaaggg gccccggact ccctcgagag aatgtgctag agacagcccc 480
tgtcttcttg gcgtggttta tatgtccggg atctggatca gattctgggg gctcagaaac 540
gtcggttgca ttgagctact gggggtagga gttccaacat ttatgtccag agcaacttcc 600
```

```
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agtgcggatt tatatatata tttttccttc actgtgtcaa gtggaaacaa aaacaaaatc 720
tttcaaaaaa aaaatcsgga caagtgaaca cattaacatg attctgtttg tgcagattaa 780
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attttgtgtt atagttgttg atgrgttctt tggttttctg tattttttccc cctctcttta 1860
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ggccgc                                                          1926
```

<210> 490
<211> 1461
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1432)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1452)
<223> n equals a,t,g, or c

<400> 490
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gagaagcggt ggtagcggag gctgtagtgg ggctggtggt gcttccaact gcgggacagg 120
aagtggccgt agcggcttgt tggataagtg gaagatagat gataagcctg taaaaattga 180
caagtgggat ggatcagctg tgaaaaactc tttggatgat tctgccaaaa aggtacttct 240
ggaaaaatac aaatatgtgg agaatttttgg tctaattgat ggtcgcctca ccatctgtac 300
aatctcctgt ttctttgcca tagtggcttt gatttgggat tatatgcacc cctttccaga 360
gtccaaaccc gtttttggctt tgtgtgtcat atcctatttt gtgatgatgg ggattctgac 420
catttatacc tcatataagg agaagagcat ctttctcgtg gcccacagga aagatcctac 480
aggaatggat cctgatgata tttggcagct gtcctccagt cttaaaaggt ttgatgacaa 540
atacaccttg aagctgacct tcatcagtgg gagaacaaag cagcagcggg aagccgagtt 600
cacaaagtcc attgctaagt ttttttgacca cagtgggaca ctggtcatgg atgcatatga 660
```

```
gcctgaaata tccaggctcc atgacagtct tgccatagaa agaaaaataa agtagccaat 720
tctaaaagta gccctctttc tcctggatct tgctgaatta gtggcttggg gggtggggga 780
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cttgtgtatg acagctttcc ttcacacact atttttgtgg gtgtgtatat atctgatttg 1200
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cactagtata tccctgttga tttgtttgtg cctttttatta actgccattt tctaaaattt 1380
ttttcaataa aaggaaggaa gatgtgaaaa aaaaaaaaa aaaaaatgg gnggccgaac 1440
ttatccctag gngggtattt a                                          1461
```

<210> 491
<211> 805
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<400> 491
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aatcaggcta ttgctatcct aatgtatgtc tctatgagtg tatttagcca cacatctgcc 360
cttggttgac tttctgactc attgcttgct tgcttgtttc cttgctttgg aaaactattg 420
aagattgcta aaaaatacca ctgcaaagtg atggaaaagg gtggagaaca ggggagtagc 480
caggctggat ggctcaaata taaatgaatg aggaattctt tatgaagtat cagtcagatt 540
ttatgattaa gtgatgtaat ataggaatta tgtaaaaggg aagaatgtct gatactgatc 600
tattagagag gtactttaga ggcttcttga ttggcataaa gttcctaagg ttatagattt 660
tccccccttt tggctgtata gcaaagtgtt ttaatccacg gttgtgcctt attgttccat 720
taaaattgta tcttcgatcc atcaataaat acttgtggtt gaaacaaaaa aaaaaaaaa 780
aaaaaaaaaa aaaaaaaaa aaaaa                                       805
```

<210> 492
<211> 2269
<212> DNA
<213> Homo sapiens

<400> 492
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agaagaatag tctcacccccg cgtgtgccaa ggtggagtat gcctacagcg acaacagcct 60
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ccggcggcgg cgcgcacaca ctcaggctga gcagaagagg agggacgcca tcaagagagg 180
ctatgatgac cttcagacca tcgtccccac ttgccagcag caggacttct ccattggctc 240
```

```
ccaaaagctc agcaaagcca tcgttctaca aaagaccatt gactacattc agttttttgca 300
caaggagaag aaaaagcagg aggaggaggt gtccacgtta cgcaaggatg tcaccgccct 360
aaagatcatg aaagtgaact atgagcagat tgtgaaggca caccaggaca acccccatga 420
aggggaggac caggtctctg accaggtcaa gttcaacgtg tttcaaggca tcatggattc 480
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ttgacgataa aactcaaacc tacccagcct tccccccact ccatggaagt ccttgggatg 900
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```

<210> 493
<211> 4108
<212> DNA
<213> Homo sapiens

<400> 493

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aacctgaaaa ggaaccggaa ttgcagcagt atgtgccaca actgcaaaac aacaccatcc 180
tccgccttct gcagcaggtg tcacagattt atcagagcat tgagttttct cgtttgactt 240
ctttggttcc ttttgttgat gctttccaac tggaacgggc catagtagat gcagccaggc 300
attgcgactt gcaggttcgt attgatcaca cttctcggac cctgagtttt ggatctgatt 360
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accttaaaaa ttcacgaaaa gagcaccagc ggatcctggc tcgccgccag acaattgagg 600
```

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tcaattttgg agcgcagtag ctatgttaaa gatgaactat ttggtctcat tgaagccaac 3960
acagaacttg ctgctgtgtt ttttcttcag tgataaataa aatacttaca gaatttgttt 4020
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gaggtttttt tttacttgaa tttttaat                                     4108
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<210> 494
<211> 2209
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<400> 494
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gaccccatcc gggacccctt gagggatcct taccragaac ttgacattca ccggagagac 180
ccgctgggca rggacttcct gctaaggaac gacccgytcc accggctctc gactycccgg 240
ctgkacsaag ccgaccgctc cttcagggac cgggagcctc acgactacag ccaccaccac 300
caccaccacc accacccgct gtctgtggac cctcggcggg agcacgagcg gngaggccac 360
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aacaagaccc ctccgacagc agcgctgagc gcacctcccc cgctcatctc cacgctgggg 600
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ccttcccaca cgctgaagga tatcgaggcc cgataagccg agaacaggag caagaacgag 720
gaagaagaaa ccctaggcag acaccaggcc aggcttgaga gacagaactc ctgcatggct 780
cacacagact ggggggggaaa gccccacccc ttccccttgt aaaaaatgta tagactcagt 840
gcacattttg aaatgttttg tatattatat gttgagattt ttcagatctt ttagcccagt 900
catatgttct cacgtctcct acttttttgtt tctcgtataa aactttttga tttgaaccaa 960
aacagtgaag atgacaacac acaccaattg gatgataatt gtagcggggg cggtgggggg 1020
gagaagtcca cgccatccat catgcaaaat tctttcagat gaggtgggaa ggccgtgtac 1080
atagttatgt aaaaagagat tgcttcatga gctaatggtt catatatgca aaagggtaag 1140
atgaaagctt tactttgtac aaatgtaaat agataaagta acataataca ttaatacttc 1200
ttaaaatgtg ctatttgcaa acttacttaa tatcagtgaa cacagtcggc taaagctgtg 1260
ttcccatata ttgttataga cagctaaacc cttcaactat gcaatgaatg ttcgggcttt 1320
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agttgccgct tgtgggctct gggggaaagt gtagccccgg agaggtaact gaggacatga 1560
gcaaccagtg ccagggaggg tgggatttgc cagatgccaa aatcagggga cgggtggtgg 1620
tgtctgtcag acacacacag gtcgccagtg acttcacaca cacctcatgt gagaaccatg 1680
cctttttttag tgtgtcctat ttcatacctg tacacacttc ctcgttttgt aatgagattt 1740
acttacaccc aaacagatcc tgaaagaaag cttcaagttt tctcagatga tggatatgtt 1800
ttcactgtat tcaataactg acggatgtaa ggtgcacgtt tcctgatgtg acgcactgta 1860
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ttgcatcaat cttaatgtct cttcataata cttttataat acattaagcc tcttgtctac 2040
atatttggag agaatatgac tttactagca gagaaataca atatatcttg tctactggac 2100
tgtaaaatat atgtatgaaa taaaattagt tccatttggt cttctagtat attaaagtgc 2160
tatctgacgt tgttatcctg tttttgcaaa aaaaaaaaaa aaaaaatt        2209
```

```
<210> 495
<211> 1677
<212> DNA
<213> Homo sapiens

<400> 495
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ggcctggaca tcacagatgc ctccctgcgg ctcatcatcc gccacatgcc cctgctctcc 180
aagctccacc tcagttactg taaccacgtc accgaccagt ctatcaacct gctcactgct 240
gttggcacca ccacccgaga ctccttaacc gagatcaacc tgtctgactg caataaggtc 300
actgatcagt gcctgtcctt cttcaaacgc tgtggaaaca tctgtcatat tgacctgagg 360
tactgcaagc aagtcaccaa ggaaggctgt gagcagttca tagccgagat gtctgtgagt 420
gtccagtttg ggcaagtaga agaaaaactc ctgcaaaaac tgagttagtc caaggataag 480
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agggagaagc tgttcaacca cccgtttggg ggatgagtga gccgacactt tcctttggtc 660
tttctgaatc gtaactgcac tgctttctgg accatttcta aggcggcctt tacaagaaga 720
cattcctgtc ggagaggagg gtggacttcg gagaaattct catactgaag catgagctta 780
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cttgtactta catagatcta atttatacag tgagtcaaga cgtagaataa atgctcccac 1380
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ggtggtgttt cctagacctt ccctgatgcg attttacctt tgttgaattt gtataaacaa 1560
ttgtacaaaa aaaccactc ttgaactttg agggtttctg ttctaggagt ggactagaag 1620
tttaagccca gagtcagtaa acactgtttt gaagtccaaa aaaaaaaaaa aaaaaaa  1677
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<210> 496
<211> 1702
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1691)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (1701)
<223> n equals a,t,g, or c

<400> 496
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cgttttggcg tgcctgcgct ctctgcaggc agaagcgaac aaagacccag caagagaagg 120
cagaggctaa gacccatccc gtatctgctc tcctgaaata attctggagt catgcctgaa 180
atgccagagg acatggagca ggaggaagtt aacatcccta ataggagggt tctggttact 240
ggtgccactg ggcttcttgg cagagctgta cacaaagaat ttcagcagaa taattggcat 300
gcagttggct gtggtttcag aagagcaaga ccaaaatttg aacaggttaa tctgttggat 360
tctaatgcag ttcatcacat cattcatgat tttcagcccc atgttatagt acattgtgca 420
gcagagagaa gaccagatgt tgtagaaaat cagccagatg ctgcctctca acttaatgtg 480
gatgcttctg ggaatttagc aaaggaagca gctgctgttg gagcatttct catctacatt 540
agctcagatt atgtatttga tggaacaaat ccaccttaca gagaggaaga cataccagct 600
cccctaaatt tgtatggcaa aacaaaatta gatggagaaa aggctgtcct ggagaacaat 660
ctaggagctg ctgttttgag gattcctatt ctgtatgggg aagttgaaaa gctcgaagaa 720
agtgctgtga ctgttatgtt tgataaagtg cagttcagca acaagtcagc aaacatggat 780
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agttcctttc ntcaaacatt nt   1702

<210> 497
<211> 2376
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2354)
<223> n equals a,t,g, or c

420

<220>
<221> misc feature
<222> (2375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2376)
<223> n equals a,t,g, or c

<400> 497
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agatgaattc cgtggttgct ctcgatcttg caatttccaa ggagacggat gctttccaac 120
cccacaagca gacccggctg tatggcatca ccacggccct gtctcagtgt ccgcaagcca 180
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caggacctgc cgttgccctg acaacacctt gggagttgac tgtatcgaac agaaatgaag 300
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ggtccagatt gaaaagtgtc ctctggctga gtggccacta ggcccagacc cagcccagcc 420
tgagccccaa caacttttcc ctcactgttc cccaaaacat gcaccctgga cttctctaat 480
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cagacttata caccctgag tgaggattac atgcccatcc cagtgtccta ggacctttc 600
ccaatactag cccccagtg gtgaacagaa cctcccaaat ttgagttgca cccttccctg 660
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caatttgttt agaaaacatc tcctgaccat atcagtagct cgtgttatct ttttatcaac 1560
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aagaccactt atacttgaga acatggaaga atttgcctga tactctcttt ggggaaaaga 1860
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aaccactgaa ggtgcttatt aactgttctc ccagatttgt acaagtattg gatgattcct 2280
tgagtttaca gctgtacaaa tagtgtggaa aataaacttt ttttaaaaaa gaaaaaaaaa 2340

421

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aaaaaaaaaa aaanaaaaaa aaaaaaaaaa aaaann                      2376

<210> 498
<211> 840
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (840)
<223> n equals a,t,g, or c

<400> 498
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gaagatggcg gtggagtcgc gcgttaccca ggaggaaatt aagaaggagc cagagaaacc 120
gatcgaccgc gagaagacat gcccactgtt gctacgggtc ttcaccacca ataacggccg 180
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cacttggatg gatgcaacyt tgaaagaact gacaagctta gtaaaagaag tctacccaga 300
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catgaccctg cagtcgcaga agttccagat aggagattac ttggacatag caattacccc 480
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ttgttgaatt tattttttccg tcagttatgt aaaataaaca tactcttctt cctcccctga 600
ttattgccat taagccttta aattctaaac aaattataat gcatcatcta tttaggagtt 660
agatttggat gtgctattgt atgattacga atagtctgta tgtttcaagc ccttctgtaa 720
aatatgaaga aaagtgctct tagcattctg tgtaaaactg tactgttaaa tatatgtgtg 780
taatcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaan 840

<210> 499
<211> 461
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (455)
<223> n equals a,t,g, or c

<400> 499
ggcacagctt ccctcctctt cctttctccg ccatcgtggt gtgttcttga ctccgctgct 60
cgccatgtct tctcacaaga ctttcaggat taagcgattc ctggccaaga aacaaaagca 120
aaatcgtccc attccccagt ggattcggat gaaaactgga aataaaatca ggtacaactc 180
caaaaggaga cattggagaa gaaccaagct gggtctataa ggaattgcac atgagatggc 240
acacatattt atgctgtctg aaggtcacga tcatgttacc atatcaagct gaaaatgtca 300
ccactatctg gagatttcga cgtgttttcc tctctgaatc tgttatgaac acgttggttg 360
gctggattca gtaataaata tgtaaggcct ttcyttttta aaaaaaaaaa aaaaacyyrr 420
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gggggggccc ggttcccaat cccccctatt tnaanccccct t                    461
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<210> 500
<211> 2782
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2620)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2641)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2643)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2712)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2742)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2759)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2779)
<223> n equals a,t,g, or c

<400> 500
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cagtggtaca tctatggatt cagcttgagt gctgtttaca cttgcaaaag agatccctgc 240
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ttcaagggcg ttaaggatcg ggttaaggga aagagcgacc cttaccatgc gaccagtggt 420
gcgctgagcc ctgccaaaga ctgtgggtct caaaaatatg cttatttcaa tggctgctcc 480
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tcaccaaccg ctcccctctc gcctatgtct cctcctgggt acaagctggt tactggcgac 540
agaaacaatt cttcttgccg caattacaac aagcaagcaa gtgagcaaaa ctgggctaat 600
tacagtgcag aacaaaatcg aatggggcag gcgggaagca ccatctctaa ctcccatgca 660
cagccttttg atttccccga tgataaccag aattctaaaa aactagctgc tggacatgaa 720
ttacagccac tagccattgt ggaccagcga ccttcaagca gagccagcag tcgtgccagc 780
agcagacctc ggcctgatga cctggagatc tagatacagg cttgaaagca tcaagattcc 840
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cggtggaggt ggtactcaac agccttattc atgaggctta gaaaacacaa agacattaga 960
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gcaaatacgt atattctttt tccatccact tgcacaatat cattaccatc acttttcat 1500
cattcctcag ctactactca cattcattta atggtttctg taaacatttt taagacagtt 1560
gggatgtcac ttaacatttt tttttgagc taaagtcagg gaatcaagcc atgcttaata 1620
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tcctgctgtg gcaagtaaag cacacttttt ttttctccta aaatgttttt ccctgtgtat 1860
cctattatgg atactggttt tgttaattat gattctttat tttctctcct ttttttagga 1920
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ttgggttttc ctacttaata cacagtaatt cagaacttgt attctattat gagtttagca 2160
gtcttttgga gtgaccagca actttgatgt ttgcactaag attttatttg gaatgcaaga 2220
gaggttgaaa gaggattcag tagtacacat acaactaatt tatttgaact atatgttgaa 2280
gacatctacc agtttctcca aatgcctttt ttaaaactca tcacagaaga ttggtgaaaa 2340
tgctgagtat gacactttc ttcttgcatg catgtcagct acataaacag ttttgtacaa 2400
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aagttttaat ttagtataaa catagcttct atattccgtc tcaaaaaaaa aaaaaaaaaa 2580
acgtgcttag ttcagttcaa gttgctcctt tataatttgn ttttggatga aaaaagattg 2640
ngncatttgt ttaaagtcag aggattatct aaaagccagt ttcccagtca atttggatat 2700
aattggtagt gngaatactt cttcaaggac tattacttgg gnggttggag aatttattnt 2760
ggaagaaggc aaatgcttng gg                                      2782
```

<210> 501
<211> 1249
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<400> 501

424

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gcaaggagtc cccaatgcaa agacacagcg ctgcgnttgg cacctccttc ctcactccct 60
caaaattgtt aagaaatgtt agtggtgggt ctgatctgac tgcagccatc ggtaaataaa 120
agttttgat cctgttgaac ccgcctgaga cggtgctgtg aggggaaagc cttccgcacc 180
cacacaggaa ttctgctgag gtcccccctc cttccggcca atggcagaag tggggaaaaa 240
tttttagaag aaaagcaaac atgtgagacc aatcattatc aaatactttt atttttggt 300
tgagtattta tcttttatt ttttattttt tttttgaaa gaatgtcttg gaatgcgcaa 360
gtctcccttt agagccgtct tttgcaggga gcgggaagtg acaagagctc agatctccct 420
cccgatctcc ctccccacct ccgaagtctc ctccgtggac cacaggtgga tctttgtgcg 480
aacaacttgc atttcggaag ccactgtccg tctttaaaca gaaagtcgaa ggagccacga 540
agcaagcggc cgtccgggcg tccgyctgcc gtccccttcc atgttcctcc tcttccttcg 600
cttcagcctc ttctgttatg ttttgtcttg aattttattt agacttttc agtgggtatt 660
tttctgtctt ccaacctcta ctgtaaactt tctggtccga gaacgagccg aacacagcgc 720
gacgcaggga ctaggacggc ccggtgaccg cgcggattca ggattgcggg gacgcagaaa 780
ggttaaggca cttttaaaaa ctatagcaag gctcctgttt atttattcta ctttcttcc 840
ctaataatca aaacaccgcg taggctcctc cgtttatcag tattaatggt gtaactttgt 900
tggcaatatt tgccgtgtag aatttttttt agatatccat tgtaaatttg aaacaaagac 960
cgatctgtgt aaaaacaaat ttccatatgt tttatataaa tatatatata atatgaagga 1020
ctaccctcct ttttttttt gtattttggc tgctagagtg cagcatttgt gacacgtatt 1080
tgaaatttga aatttccttc tgcactgtat aaaaggacca tttgaggatg ttttgccttt 1140
tgtgtatttt ttcctaaaaa aagaacaaaa ataaaaatgt ataacatttg tacatggcct 1200
ttaaaattgt atcaactaga aataaaattg catgagtatt ttaaaaaaa           1249
```

<210> 502
<211> 1358
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1347)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1349)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1351)
<223> n equals a,t,g, or c

<400> 502
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cccgcaccct agccaggccc cagggagcct ccgctgggcc cagacagcag cgttyggttt 60
tatccacttt tctyggataa tcaggaggtg ccccagtsgt cacagtgtgg cattccgagt 120
tggggcgggt ggtcgggtca agatagcagc agcaggtgtc agggctcaag acaccacccc 180
```

```
ctccagcttc tggggcccag gagcctctcc ctgctacagg gggtgggggt cctgctcagc 240
agggtaggtg gtggttttag gtcttgtcac cctcactcag tggaactgcc tctgggagct 300
ttggcgtctg tractaaagg gacgctggat tgctcaggtc agctgctcgg ggctcccagg 360
ctgggtgtgc cttagccaca ggcagggctg tcaataaccc ccttcctcac tggccaccac 420
ctgacatcag caccagtgac aggctggtca gaggcgnggg ctggtgaggg tttgtcctaa 480
gaggaccacc gccatctctg ggtctccagg gggagagcct ggccctgtcc tttgctaccc 540
agggctgccc ccaggcccat gaagccaata ggagagcgtg tggcactggc ccacaaactg 600
tccctgtcct gtcttcctcc cgagccatgg cctctgctag ctccaccttg aaggagcccc 660
ccacatcctc ccctacatcc cagagatgcc accacttgtg tctccacaat gtgctcctgc 720
ccacccgggt tccgcactgt ccgacccctg cacaccactc atgtcaccac ggcgtgcatc 780
atgttcatcc ccatctattt atttaagcct ttctttgctt gtagggcatt ttgtatgtag 840
agcagttgaa aacagaacct cagaacttaa catctgtcct gatgttaaag tgctttttcat 900
gaccaccctg ttatctatgt atatgtaaag ttaaggatga gatcttaagt ttacaattaa 960
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tgtgtgtgtg tgcgtgtgtg caagctttga acctccttcc acagccgcat cttctcatga 1080
cacaaagctt ttgataagta ctttcctgtg ggtcgctcag ggcctcatag catctcattc 1140
aattacaaga atagaggcca gacacggtgg cgcatgcctg gtagtcccag ctaaactggg 1200
gaggctggag ggcagggagg gatcactttg gagcccaggg agattggagg gctggcagtg 1260
gagccatgga tccggcggac actggcactt ccagcctggg ggtggacggg tggagacttt 1320
tgttctccaa aaanaaaaaa aaaaaancnt nggagggc                          1358
```

```
<210> 503
<211> 501
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (457)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c


<400> 503
```
```
gcccacgcgt ccgacggctg cgagaagacg acagaagggg ctttctttct ttccgcgccg 60
atagcgctca cgcaagcatg gttaacgtcc ctaaaacccg ccggactttc tgtaagaagt 120
gtggcaagca ccaaccccat aaagtgacac agtacaagaa gggcaaggat tctctgtacg 180
cccagggaaa gcggcgttat gacaggaagc agagtggcta tggtgggcaa actaagccga 240
ttttccggaa aaaggctaaa actacaaaga agattgtgct aaggcttgag tgcgttgagc 300
ccaactgcag atctaagaga atgctggcta ttaaaagatg caagcatttt gaactgggag 360
gagataagaa gagaaagggc caagtgatcc agttctaagt gtcatctttt attatgaaga 420
caataaaatc ttgagtttat gttcaaaaaa aaaaaanggg gggggcccgg tacccawtcg 480
cctatagggg gncgtttaaa a                                            501
```

```
<210> 504
<211> 2011
<212> DNA
<213> Homo sapiens
```

426

<220>
<221> misc feature
<222> (1941)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1961)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1974)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1976)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2002)
<223> n equals a,t,g, or c

<400> 504
gatctgcctt cccagttaga ctgagagaac aggggatata cctaaataat aataataata 60
ataataataa taataataat aaataataat ggagagctcc ttgaagatag ggagcctgta 120
agaatcattg agggcttatt ttgtatacca actgctaaac tagatgcttc atacattgtt 180
gtcaatactc atgacagcct tgtaaagtag aaawtaattc ttccagttaa cackaaggct 240
gacatatgaa taccttggca aatctggaaa gctgggaaga cagtaattga actcaagact 300
tcttgtcacc aagggcatgc acttgtactc tgccatgtgg sccttttta cctcctgtgg 360
attctcccta cctggtactt ggccttaggt gtacacacac ctggcacttt gcttgacaca 420
taataggtgg accacaaata tctactaaat gaatatttgc atatagtaat attttaaggt 480
actaaaagca gctcaaagta aatattaata tattaattcc attgctatct ggataaccac 540
tcaactttcc tgctgaaaat gcccatttaa ttaaagaagg ttggatagag ctctctatat 600
gcattttgga caggcagggg tttcaggtca taaacattct gatgagttaa tataaaataa 660
gagaaactgt aaatttccac tactaaaaat cacaaaaata acagaaacaa aagaagagat 720
aagaatttgg ggaattgtgc tgaacaattt agtggttaaa aaaacaact gtgcatgttt 780
agacttaaat aagcccccat ccaagtgtga ggggtccagt aattttcaa aacatatgaa 840
agtgttaata catttygaca aaggaccatt aaaaaagtcc tgaattctga cttgagggag 900
gaaagtaatg actaatacat tctctagaga cttgcagact ttgggaattc ataaaggaat 960
ggatgataat tattaactgt tgctggctga ttgcccagac agttctcaac agccctgtac 1020
aagtctctgg gtttgggatg gatcaattct gagactggaa aatggccaaa tctttgcaaa 1080
tgagaaatat ttttcttata agttcttatt gtaggcaaat aattacatag attattcatc 1140
agagaatttt taaatgctca taatctcaac tctttcattt acaacttgta tttccaatag 1200
tttatgggtc atctctgcat agatgtcaga agtcacctca agtttagygt gtccaaaatc 1260
taactcacag gtctgtttct gacctcccaa cttgctttcc ttgtgttttt cctatgctaa 1320
tgatccacca taatcaaaat aattaacatt tatccagtgc ctactatgta ctattccctg 1380
tcctgtttta catttactca tttaaagtcc ataagaaaca ttaaatctca tctgccttct 1440

```
gaagaagata caaccatgct ctcttttaca aagtaggaaa ctgggtcaca gaaaggtgaa 1500
gtctttaagg ctgaatcaca gtagctcatc ctagtaaata gaaaagccag gattcaactc 1560
caggggctgg gtgcagaact gctattcttc actgcttcac caatcagcag ctacccaagg 1620
cagaaaactt tttcatcctt ggctccttca ttctccctgt caccccagat cccctctaca 1680
tctagtcaga gaataggtcc tgtcaattcc aacttctcta tatggctcct ctcaggcatg 1740
tgcccttaat tggcctaatt ctctaataca ccttccctct acatgctcac tccctcagat 1800
cattgcttta tcacgkrtta cctgggttgc tattacataa agagcaatct ttctaaaatg 1860
agggatctta tcacttcact tccacactaa aatgtttttc ctgggggaac cacacttcct 1920
tagcaatctg acccatcaga nctttccagg ctgtctcctg nctggttccc taangntccc 1980
agccaacacc ggaattatca tngggcccaa a                             2011
```

<210> 505
<211> 1989
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1917)
<223> n equals a,t,g, or c

<400> 505
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ggtgaggggt cgcccgtgca cagcctgtcc cagccgtcct gtcctggctg ctcgctctgc 60
ttcgctgcgc cgccactatg ctctccctcc gtgtcccgct cgcgcccatc acggacccgc 120
agcagctgca gctctcgccg ctgaaggggc tcagcttggt cgacaaggag aacacgccgc 180
cggccctgag cgggacccgc gtcctggcca gcaagaccgc gaggaggatc ttccaggagc 240
ccacggagcc gaaaactaaa gcagctgccc ccggcgtgga ggatgagccg ctgctgagag 300
aaaacccccg ccgctttgtc atcttcccca tcgagtacca tgatatctgg cagatgtata 360
agaaggcaga ggcttccttt tggaccgccg aggaggtgga cctctccaag gacattcagc 420
actgggaatc cctgaaaccc gaggagagat attttatatc ccatgttctg gctttctttg 480
cagcaagcga tggcatagta aatgaaaact tggtggagcg atttagccaa gaagttcaga 540
ttacagaagc ccgctgtttc tatggcttcc aaattgccat ggaaaacata cattctgaaa 600
tgtatagtct tcttattgac acttacataa aagatcccaa agaaagggaa tttctcttca 660
atgccattga aacgatgcct tgtgtcaaga agaaggcaga ctgggccttg cgctggattg 720
gggacaaaga ggctacctat ggtgaacgtg ttgtagcctt tgctgcagtg gaaggcattt 780
tcttttccgg ttcttttgcg tcgatattct ggctcaagaa acgaggactg atgcctggcc 840
tcacattttc taatgaactt attagcagag atgagggttt acactgtgat tttgcttgcc 900
tgatgttcaa acacctggta cacaaaccat cggaggagag agtaagagaa ataattatca 960
atgctgttcg gatagaacag gagttcctca ctgaggcctt gcctgtgaag ctcattggga 1020
tgaattgcac tctaatgaag caatacattg agtttgtggc agacagactt atgctggaac 1080
tgggtttttag caaggttttc agagtagaga acccatttga ctttatggag aatatttcac 1140
tggaaggaaa gactaacttc tttgagaaga gagtaggcga gtatcagagg atgggagtga 1200
tgtcaagtcc aacagagaat tcttttacct tggatgctga cttctaaatg aactgaagat 1260
gtgcccttac ttggctgatt tttttttttcc atctcataag aaaaatcagc tgaagtgtta 1320
ccaactagcc acaccatgaa ttgtccgtaa tgttcattaa cagcatcttt aaaactgtgt 1380
agctacctca caaccagtcc tgtctgttta tagtgctggt agtatcacct tttgccagaa 1440
ggcctggctg gctgtgactt accatagcag tgacaatggc agtcttggct ttaaagtgag 1500
gggtgaccct ttagtgagct tagcacagcg ggattaaaca gtcctttaac cagcacagcc 1560
agttaaaaga tgcagcctca ctgcttcaac gcagatttta atgtttactt aaatataaac 1620
ctggcacttt acaaacaaat aaacattgtt tgtactcaca aggcgataat agcttgattt 1680
atttggtttc tacaccaaat acattctcct gaccactaat gggagccaat tcacaattca 1740
```

428

```
ctaagtgact aaagtaagtt aaacttgtgt agactaagca tgtaattttt aagttttatt 1800
ttaatgaatt aaaatatttg ttaaccaact ttaaagtcag tcctgtgtat acctagatat 1860
tagtcagttg gtgccagata gaagacaggt tgtgttttta tcctgtggct tgtgtantgt 1920
cctgggattc tctgcccccy ctgagtarag tgttgtgggr taaaggaatc tytcaggggc 1980
aggggcttt                                                          1989
```

<210> 506
<211> 1085
<212> DNA
<213> Homo sapiens

<400> 506
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gggcgtggcg gcgctgtgcg cgtgcacaaa agagagctga ggggcggggg cgctgcggca 60
cagctggttt gagcaactga actggaaaca agatgcagga ccccaacgca gacactgaat 120
ggaatgacat cttacgcaaa aagggtatct tacccccccaa ggaaagtctg aaagaattgg 180
aagaggaggc agaagaggag cagcgcatcc tccagcagtc agtggtgaaa acatatgaag 240
atatgacttt ggaagagctg gaggatcatg aagacgagtt taatgaggag gatgaacgtg 300
ctattgaaat gtacagacgg cggagactgg ctgagtggaa agcaactaaa ctgaagaata 360
aattyggaga agttttggag atctcaggga aggattatgt tcaagaagtt accaaagctg 420
gcgagggctt gtgggtcatc ttgcacctttt acaaacaagg aattcccctc tgtgccctga 480
taaatcagca cctcagtgga cttgccagga agtttcctga tgtcaaattt atcaaagcca 540
tttcaacaac ctgcatacccc aattatcctg ataggaatct gcccacgata tttgtttacc 600
tggaaggaga tatcaaggct cagtttattg gtcctctggt gtttggcggc atgaacctga 660
caagagatga gttggaatgg aaactgtctg aatctggagc aattatgaca gacctggagg 720
aaaaccctaa gaagccgatt gaagacgtgt tgctgtcctc agtgcggcgc tctgtcctca 780
tgaagaggga cagcgattcc gagggtgact gaggctacag cttctatcac atgccgaact 840
ttcttgtgac aaattgtctg gattttttaa aaaaggaaaa agcaagaatg aatccttgtg 900
gtttttagtt ttgtataaat tatgtttcaa atctttacat tttggaaata atcattgctg 960
gagattctgt taaatatttt ggaactcttt ttttttaaa ttatagtatt tcctctaaaa 1020
aaaattaaaa ccagccattt gtatggcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaa                                                              1085
```

<210> 507
<211> 1485
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (570)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1475)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1476)
<223> n equals a,t,g, or c

429

<220>
<221> misc feature
<222> (1485)
<223> n equals a,t,g, or c

<400> 507
cgccgcccgt gcctttcctc ttcctcctyc tcctccttgg catccgcctc ttcttcctcc 60
tgcgtcctcc cccgctgcct ccgctgctcc cgacgcggag cccggagccc gcgccgagcc 120
cctggcctcg cggtgccatg ctgccccggc ggcggcgctg aaggatggcg acgccgctgc 180
ctccgccctc cccgcggcac ctgcggctgc tgcggctgct gctctccggc ctcgtcctcg 240
gcgccgccct gcgtggagcc gccgccggcc acccggatgt agccgcctgt cccgggagcc 300
tggactgtgc cctgaagagg cgggcaaggt gtcctcctgg tgcacatgcc tgtgggccct 360
gccttcagcc cttccaggag gaccagcaag ggctctgtgt gcccaggatg cgccggcctc 420
caggcggggg ccggccccag cccagactgg aagatgagat tgacttcctg gcccaggagc 480
ttgcccggaa ggagtctgga cactcaactc cgcccctacc caaggaccga cagcggctcc 540
cggagcctgc caccctgggc ttctcggcan ggggcaggg gctggakctg ggcctcccct 600
ccactccagg aacccccacg cccacgcccc acacctccct gggctcccct gtgtcatccg 660
acccggtgca catgtcgccc ctggagcccc ggggagggca aggcgacggc ctcgcccttg 720
tgctgatcct ggcgttctgt gtggccggtg cagccgccct ctccgtagcc tccctctgct 780
ggtgcaggct gcagcgtgag atccgcctga ctcagaaggc cgactacgcc actgcgaagg 840
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cggagatgta ccactaccag caccaacggc aacagatgct gtgcctggag cggcataaag 960
agccacccaa ggagctggac acggcctcct cggatgagga gaatgaggac ggagacttca 1020
cggtgtacga gtgcccgggc ctggccccga ccggggaaat ggaggtgcgc aaccctctgt 1080
tcgaccacgc cgcactgtcc gcgcccctgc cggcccccag ctcaccgcct gcactgccat 1140
gacctggagg cagacagacg cccacctgct ccccgacctc gaggcccccg gggaggggca 1200
gggcctggag cttcccacta aaaacatgtt ttgatgctgt gtgctttgg ctgggcctyg 1260
ggctccaggc cctgggaccc cttgccaggg agaccccga accttgtgc caggacacct 1320
cctggtcccc tgcacctctc ctgttyggtt tagaccccca aactggaggg ggcatggaga 1380
accgtagagc gcaggaacgg gtgggtaatt ctagagacaa aagccaatta aagtccattt 1440
cagacctgcg gaaaaaaaaa aaaaaaaaaa aaacnnggggg ggggn   1485

<210> 508
<211> 1930
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<400> 508
attttagtaa acttttagac aaaatttgtn aaaatgctga catcatttat aatccttcat 60
ttatttgtaa aaagatgagg acacacatta artgawgtca gcattttagt aaacttttag 120
acaaaatttg ttagggtcat tcatgaaaac tttaatacta aaagcacttt ccattatata 180
cttttaaag gtctagataa ttttgaacca atttattatt gtgtactgag gagaaataat 240
gtatagtaga ggacagcctt ggtttgtaaa gctcagttcc actagttcat ggttttgtgc 300
aacttctgag cctcagtttt ctcctttgca aattaataat tacatacctt tatagatttt 360
gaaattaatt taaatattag tatttggtac atgaaggctt aatgttaagt ttcctttaat 420

```
gatccacaat aatccctttg atcacgttaa tctaaatcta gatgtctttg tctaattttt 480
tttgaatagc agttataaat gtaaaggact caaagtttaa gtaaaaagtg atactccacc 540
ttgtgtttca aagaatttag ttccacctct tcataccagt ttaacactta atatatttca 600
ttggatttta gacagggcaa aaggaagaac aggggcctct ggaggccctt ggttatttaa 660
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gccatacatg ttaatattct acattcttgc ttccttaaat taatatgttt gtgtgtatat 1860
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<211> 1134
<212> DNA
<213> Homo sapiens

<220>
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<222> (895)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1041)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1064)
<223> n equals a,t,g, or c

<220>
<221> misc f ature
<222> (1090)
<223> n equals a,t,g, or c
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431

<220>
<221> misc feature
<222> (1106)
<223> n equals a,t,g, or c

<400> 509
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ggcagcgcgg ctgaggagaa aggcggattg gtatctgatg cctatgggga ggatgacttt 180
tctcgtctag ggggtgatga agatggttat gaagaagaag aagatgagaa cagtagacag 240
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gaagcagaaa agcgagaccc ccaggaactc gtggcctcct tttctgaaag agttcggaac 360
atgtcgcctg atgaaatcaa gatcccgcca gaaccccctg gcagatgttc aaatcacttg 420
caagacaaga tccagaagct ttatgaacga aagataaagg agggaatgga tatgaactac 480
attatccaaa ggaagaaaga atttcggaac cctagcatct acgagaagct gatccagttc 540
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tctgaggact cctactatga ggcattagcc aaggcccaga aaattgagat ggacaaattg 660
gaaaaggcca aaaaggagcg aacaaaaatt gagtttgtga cgggcaccaa aaaaggcacc 720
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aggggccacc ttagggaytt gaaaagggac cgttgcagcc ccarttgacc actggccagt 1020
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<210> 510
<211> 1382
<212> DNA
<213> Homo sapiens

<400> 510
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tcagccacaa tgatgtagcc tcttttcctt tccatccaca gggcacctgg cctgggtgga 180
gcccactcct cagcacccac ctcacttctt gcagtattct gcagacccca gccctgtgcc 240
tgtgctcctg gacagctgga gataaggagt gggccctgga agatgctcat tcaggccctg 300
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432

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ctggcacttc gggcaataac tctgtggcac gtgggcatca cgtaagcagc acactaggag 1140
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cc                                                                1382
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<210> 511
<211> 1741
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1696)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1710)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1715)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1717)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1720)
<223> n equals a,t,g, or c

<400> 511
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tgtacttgct cagctcaact gcatttcagt tgtattatag tccagttctt atcaacatta 180
aaacctatag caatcatttc aaatctattc tgcaaattgt ataagaataa agttagaatt 240
aacaatttta ttttgtacaa cagtggaatt ttctgtcatg gataatgtgc ttgagtccct 300
ataatctata gacatgtgat agcaaaagaa acaaacaaaa gccaggaaaa cactcatttt 360
cgccttgaat atgtaaatgg gattaatttt gtcctgtgcc ttatgtggaa aggaacttct 420
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ttaaaactat tcctgccacc atttcttctc cttggccact tcttccttgc gtctccctgc 660
atgctgcttt atttgcttct ccctccccaa ccacctcatg gtatatttaa gagtgaaagg 720
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c                                                                 1741
```

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<210> 512
<211> 1530
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1444)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1488)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1508)
<223> n equals a,t,g, or c

<400> 512
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cggaggcggc ggcggtggcg gtggaggagc cggggcggcg ggcggcggcg gcggtgggga 240
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434

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<210> 513
<211> 2999
<212> DNA
<213> Homo sapiens

<220>
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<222> (243)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2606)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2996)
<223> n equals a,t,g, or c

<400> 513
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<210> 514
<211> 2048
<212> DNA
<213> Homo sapiens

<400> 514

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ggactttata tgttcaagtg caggaattgg aaagttggac ttgttttcta tgatccaaaa 180
cagccctata agaaggttgg aaaaggagga actatatagc agcctttgct attttctgct 240
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436

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accatttctt ttcctctgaa gcggccatga cattcccttt ggcaactaac gtagaaactc 300
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<210> 515
<211> 3300
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<400> 515

```
nngacccacg cgtccgcgga cggtgggtcg agacccacgc gtccgcttta cagggaccca 60
gtctgccttc aagaaaagac agaagtagaa agggtggtgg ctgactgtct gacaaattgt 120
tatcangtat gcaggaagta tatccttctc caaaatatca tacttgcatc accaggtaga 180
cacatttcct tctacacaga attatcttca gagcttctta aagcaaataa agcctgcttc 240
aaggactgag tccctagtcg aattcccgga aggagtggag cctgtcatat tggtgagggt 300
ttgccttgaa tgtcatccca gtatttcaat attgattaat tagtcttccc tcatggtccc 360
aactgcatag tttttatttt gttgagtgtt ctgacacatg gtaagggaca tgaaagtatc 420
ctttgagata atctttccat tcatcagtgt ttatctagca tctgctcaag agtgtgctgc 480
agtggaggga aatcagatga cctcccagtc tggttgtgtt acatacaatc atgtgtaaga 540
agtgccattc aagccgtgtc actggagggg actgacagtg agtgagtgtg gatagagagg 600
acctcctggg gtgggcaatg tgagccctca gactctgtag gtattgcatt ttgcagtgaa 660
cactggtaga catgtttttgt ggctcaagcc agcatgtgtg tgatggttta ggattcaktg 720
actttttgatg atctggctgt ggacttcacc ccagaagaat ggactttact ggacccaact 780
cagagaaacc tctacagaga tgtgatgctg gagaactaca agaatttggc cacagtagga 840
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cagagaggtg atttccaagc ttcagaatgg aaagtgcaac ttaaaaccaa agagttagcc 960
cttcagcagg atgtttgggg ggagccaacc tccagtggga ttcaaatgat aggaagccac 1020
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cttaagacac atgtgagaac tcaaaatagt gagaacacat ttgagtgtta tctgtatgga 1140
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tgtgggagag ccttcactgt ttcctcttgc ttaagtcaac atatgaaaat ccatgtgggt 1680
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actcacagtg gagagaggcc ctatgaatgt aaggaatgtg gaaaggcctt tgccagatcc 1980
tctcgcctta gtgaacatac aagaactcac actggagaga agccttttga atgtgtcaaa 2040
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gagaagccct ttgagtgcct ggaatgtggt aaagcattta cgcattcctc cagtcttaat 2160
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aaatgtwaac agtgtgggaa atccttcagt tactccaatt cgtttcagtt acatgaacga 2340
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agccttacca aacacatcag aaatctcact ggagagaaac ygtatgaatg tagagaatct 2700
gggaatacct ttctgaatcc cacaaacctt aatgtgtgta tgtgaactca cattggagag 2760
aaaccctgca atttaaatgg tatggtctgg atgatgcccc actccatatt tgtaagccct 2820
aagtcctagt tccttacact ataactgtat ttggacatag ggttttcaaa caggtgagta 2880
acttcaaatg aggttgttgg gttcgatccc taatctgaca tcactggtgt ccctataagg 2940
```

438

```
gaaactgaag gaaggataca catggagaag actgtgtgga tccaccagaa gatggccatc 3000
tacaagccaa ggacagagac ctggaacaga tgctttcatt atggcctcca gaggaaacca 3060
accctgtctc caccttgata ttgcacttcc aggctccaga actgtgaggc aataaatttc 3120
tcttggttaa atcattcagt ctgttatttt gtacagcaac cctaggaaac taatactgtg 3180
aggaacttgg gaaaagcttt agatcaagct tgtccaaccc gcaggccagg atggctttga 3240
atgcagacca acacaaattt ttaagctttc ttcaaacata ataaawtttt tttgtgatta 3300
```

<210> 516
<211> 3425
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<400> 516
```
gggaagtccc cgaggcgcac agagcaagcc cacgcgaggg cacctctgga ggggagcgcc 60
tgcaggacct tgtaaagtca aaaatgtcag aaacttccag gaccgccttt ggaggcagaa 120
gagcagttcc acccaataac tctaatgcag cggaagatga cctgcccaca gtggagcttc 180
agggcgtggt gccccggggc gtcaacctgc aagatgatgc tgtgtatctg gacaatgaga 240
aagaaagaga agagtatgtc ctgaatgaca tcggggtaat ttttatgga gaggtcaatg 300
acatcaagac cagaagctgg agctatggtc agtttgaaga tggcatcctg gacacttgcc 360
tgtatgtgat ggacagagca caaatggacc tctctggaag anggaatccc atcaaagtca 420
gccgtgtggg gtctgcaatg gtgaatgcca aagatgacga aggtgtcctc gttggatcct 480
gggacaatat ctatgcctat ggcgtccccc catcggcctg gactggaagc gttgacattc 540
tattggaata ccggagctct gagaatccag tccggtatgg ccaatgctgg gtttttgctg 600
gtgtctttaa cacattttta cgatgccttg aataccagc aagaattgtt accaattatt 660
tctctgccca tgataatgat gccaattgc aaatggacat cttcctggaa gaagatggga 720
acgtgaattc caaactcacc aaggattcag tgtggaacta ccactgctgg aatgaagcat 780
ggatgacaag gcctgacctt cctgttggat ttggaggctg gcaagctgtg gacagcaccc 840
cccaggaaaa tagcgatggc atgtatcggt gtggccccgc ctcggttcaa gccatcaagc 900
acggccatgt ctgcttccaa tttgatgcac cttttgtttt tgcagaggtc aacagcgacc 960
tcatttacat tacagctaag aaagatggca ctcatgtggt ggaaaatgtg gatgccaccc 1020
acattgggaa attaattgtg accaaacaaa ttggaggaga tggcatgatg gatattactg 1080
atacttacaa attccaagaa ggtcaagaag aagagagatt ggccctagaa actgccctga 1140
tgtacggagc taaaaagccc ctcaacacag aaggtgtcat gaaatcaagg tccaacgttg 1200
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tccggaacaa cagccacaac cgttacacca tcacagctta tctctcagcc aacatcacct 1320
tctacaccgg ggtccygaag gcagaattca agaaggagac gttcgacgtg acgctggagc 1380
ccttgtcctt caagaaagag gcggtgctga tccaagccgg cgagtacatg ggtcagctgc 1440
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tggccaagca aaagtccacc gtgctaacca tccctgagat catcatcaag gtccgtggca 1560
ctcaggtagt tggttctgac atgactgtga cagttgagtt taccaatcct ttaaaagaaa 1620
ccctgcgaaa tgtctgggta cacctggatg gtcctggagt aacaagacca atgaagaaga 1680
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tctctgggca tcggaagctg atagccagca tgagcagtga ctccctgaga catgtgtatg 1800
gcgagctgga cgtgcagatt caaagacgac cttccatgtg aatgcacagg aagctgagat 1860
gaaccctggc atttggcctc ttgtagtctt ggctaaggaa attctaacgc aaaaatagct 1920
cttgctttga cttaggtgtg aagacccaga caggactgca gagggcycca gagtggagat 1980
```

```
cccacatatt tcaaaaacat gcttttccaa acccaggcta ttcggcaagg aagttagttt 2040
ttaatctctc caccttccaa agagtgctaa gcattagctt taattaagct ctcatagctc 2100
ataagagtaa cagtcatcat ttatcatcac aaatggctac atctccaaat atcagtgggc 2160
tctcttacca gggagatttg ctcaatacct ggcctcattt aaaacaagac ttcagattcc 2220
ccactcagcc ttttgggaat aatagcacat gatttgggct ctagaattcc agtccccttt 2280
ctcggggtca ggttctaccc tccatgtgag aatattttc ccaggactag agcacaacat 2340
aatttttatt tttggcaaag ccagaaaaag atctttcatt ttgcacctgc agccaagcaa 2400
atgcctgcca aatttttagat ttaccttgtt agaagaggtg gccccatatt aacaaattgc 2460
atttgtggga aacttaacca cctacaagga gataagaaag caggtgcaac actcaagtct 2520
attgaataat gtagttttgt gatgcatttt atagaatgtg tcacactgtg gcctgatcag 2580
caggagccaa tatcccttac tttaacccctt tctgggatgc aatactagga agtaaagtga 2640
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cttcacatca cccatgttga gacctcagct tggcactcag gtgctgaagg gtaatatgga 2880
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ttgtattatg ttccaaggct actacagaga aggctgcctg ctatgtattt gcaaggctga 3000
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tggtctatat aaccacattt ctaagccttt gagactgttc ctgagccttc agcactaacc 3180
tatgagggtg agctggtccc ctctatatat acatcatact taactttact aagtaatctc 3240
acagcatttg ccaagtctcc caatatccaa tttttaaaatg aaatgcattt tgctagacag 3300
ttaaactggc ttaacttagt atattattat taattacaat gtaatagaag cttaaaataa 3360
agttaaactg attatatttg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggggggg 3420
ggggc                                                            3425


<210> 517
<211> 1358
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (1346)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (1356)
<223> n equals a,t,g, or c


<400> 517
tcgacccacg cgtccggacc cacgcgtccg agtcaacatc aggctactga agttgaggct 60
ttagggtaac tttcctatat tgagcccatg ggttacaagg atttgcaata tattgttcca 120
tttacagcca atacaggttt aatcgatgtt caatattggt ttaggaaatt taaggccttc 180
taaatcataa tagctctttc atgtctaaaa ccattttatg atattgccaa aatgtgatag 240
gaaacctact cattaaattg ttaaactttt taatgactat gtgaagatat gaattgtttc 300
ctgaagataa tactcttaat tgagttgtat tgtacttctt aggcaaagca gtgtaaaact 360
gtatcaatta aggcttgtga gtagtgattt ccactggggc atcagagtct ggctgggct 420
gaatctgctg cttgttggtt cagtgttttct tatgaacaag agccacagta cagagcttca 480
agttatttaa aatactaagt catcttacgt ttccatttta ttaacgggat gttgcaatcg 540
```

```
tttgtaaact aataaactta taaagtgatt ggcacaaaga ctccttgagc aaaagctgtg 600
cagttaagta caaaaagata cttaatttgg agactcttac agtaattttt gccatgtcaa 660
aacaatggct tttacattga aagattaata gaaactctac atatgttaat ttttttatag 720
aacctgactc aaatcaaggt actctccatt ttattgcctt acctgaatca gtcctttttg 780
gttggtaata gatttttta tacacccacg tttgatttaa aagtaaattc tagttcttaa 840
gcacttttaa caagaaatcc agaagcacat ttttctgcac aaacaagtta caaagttcaa 900
aagtgtttct tgtgcattag ctttgagatt cagtttttaa ctttgtaaac cacatctgag 960
agacttgtca tttctacatt gtgtgtgttt aatttctttt gattccattt tggttaagag 1020
agcagtaaat agattttctg gtattcttgt tcacttgatt acatttgtat aaagttctga 1080
ttgccagttg ctcagataac aagtgacaag gcagaattct ttaaatcagt aaagttcctt 1140
aagcctaagg ctaaatcttg aatacattgt tgaattcttt aatatcctga tggcaagcag 1200
actgatagct gcacatttgg catgctttgt ttaatggatt ttatttttaa ttgcagattt 1260
atttggcaat gtacagtaaa ttttgtaaac ttgcatcaag tttatgaata aagaaccatt 1320
taaaaaaaaa aaaaaaaaaa aaaagnagga aagaanag                           1358
```

<210> 518
<211> 1368
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1347)
<223> n equals a,t,g, or c

<400> 518
```
gcggattgca acacatgcag ctgcctggag agagggagcc ggtgtcctac gtcagagccg 60
ccgccgccgc ggagccgccg ccggggagga gcagccgctg ccgcccagga ctgggccctt 120
agggaggagg aggcgagaag atggcggacg accccagtgc tgccgacagg aacgtggaga 180
tctggaagat caagaagctc attaagagct tggaggcggc ccgcggcaat ggcaccagca 240
tgatatcatt gatcattcct cccaaagacc agatttcacg agtggcaaaa atgttagcgg 300
```

441

```
atgagtttgg aactgcatct aacattaagt cacgagtaaa ccgcctttca gtcctgggag 360
ccattacatc tgtacaacaa agactcaaac tttataacaa agtacctcca aatggtctgg 420
ttgtatactg tggaacaatt gtaacagaag aaggaaagga aaagaaagtc aacattgact 480
ttgaacctttt caaaccaatt aatacgtcat tgtatttgtg tgacaacaaa ttccatacag 540
aggctcttac agcactactt tcagatgata gcaagtttgg attcattgta atagatggta 600
gtggtgcact ttttggcaca ctccaaggaa acacaagaga agtcctgcac aaattcactg 660
tggatctccc aaagaaacac ggtagaggag gtcagtcagc cttgcgtttt gcccgtttaa 720
gaatggaaaa gcgacataac tatgttcgga aagtagcaga gactgctgtg cagctgttta 780
tttctgggga caaagtgaat gtggctggtc tagttttagc tggatccgct gactttaaaa 840
ctgaactaag tcaatctgat atgtttgatc agaggttaca atcaaaagtt ttaaaattag 900
ttgatatatc ctatggtggt gaaaatggat tcaaccaagc tattgagtta tctactgaag 960
tcctctccaa cgtgaaattc attcaagaga agaaattaat aggacgatac tttgatgaaa 1020
tcagccagga cacgggcaag tactgttttg gcgttgaaga tacactaaag gctttggaaa 1080
tgggagctgt agaaattcta atagtctatg aaaatctgga tataatgaga tatgttcttc 1140
attgccaagg cacagaagag gagaaaattc tctatctaac tccagagcaa gaaaaggata 1200
aatctcattt cacagacaaa gagancggga caggaaccat gascttatcg agagcatgsc 1260
cctktttgga awggkttgst aacaactwta aaaaattggg acttccttgg naaattggcc 1320
caattaattc ccnanaaagg ggtcaanttt ggaaaagaat tgggggaa                1368
```

`<210> 519`
`<211> 933`
`<212> DNA`
`<213> Homo sapiens`

`<400> 519`
```
ccacgcgtcc gcggacgcgt gggcggacgc gtgggtggca ggatcagatt ttattaagac 60
ctctactgga aaagaaacag taaatgccac cttcccggta gctatagtaa tgctgcgggc 120
cattagagat ttcttctgga aaactggaaa caagataggg tttaaaccag caggaggcat 180
ccgcagtgca aaggattccc ttgcttggct ctctcttgta aaggaggagc ttggagatga 240
gtggctgaag ccagaactct ttcgaatagg tgccagtact ctgctctcgg acattgagag 300
gcagatttac catcatgtga ctggaagata tgcagcttat catgatcttc caatgtctta 360
aatcagtcac cagttccaga aaagttcttt acgacaatgt ttaaaaatta tttttctacg 420
taattgctaa aattatttaa ttaaaaaatt gggcagtagg taactggcat tcctctcttt 480
aaaatttcta ccgaacttaa tggaatggaa aaagcaaact catccacatg tggtactcat 540
ttcaggcaca tctgaaatga tcttaattac tagaagatct gcactattaa ctttgtgaag 600
agtttctcct aaaaacttta agtaaaatgt taatggtagc tttgataaca tcaaattcta 660
agggagaaaa aaacaatatt aaaccgccca agcagtgtgc cctagcagag gaaaatgcaa 720
catctcgcaa gcgctgctgt aacgacttca ggagtcactg attcagcact aatttcctgc 780
tgtgaaaact catctttcat ttttgccgtg gataggcgct tttattaatt gttgtcctaa 840
tgaaatttct gacattgtca tatacaacga tgaatatcat taaaattttt aaaataaaaa 900
aaaaaaaaa aaaaaactcg aggggggggcc cgg                                 933
```

`<210> 520`
`<211> 1430`
`<212> DNA`
`<213> Homo sapiens`

`<220>`
`<221> misc feature`
`<222> (104)`
`<223> n equals a,t,g, or c`

<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1428)
<223> n equals a,t,g, or c

<400> 520
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gcggacgcgt gggcggacgc gtgggcggac gcgtgggttt cacagccaaa gtgtgggatg 60
ctgtctcagg agatgaattg atgaccctgg ctcataaaca catnntcaag actgtggatt 120
tcacgcagga tagtaattat ttgttaaccg ggggacagga taaactgtta cgcatatatg 180
acttgaacaa acctgaagca gaacctaagg aaattagtgg tcatacttct ggtataaaaa 240
aagctctgtg gtgcagtgag gataaacaga ttctttctgc tgatgacaaa actgttcgac 300
tttgggatca tgctactatg acagaagtga aatctctaaa ttttaatatg tctgttagta 360
gtatggaata tattcctgag ggagagattt tggttataac ttatggacga tctattgctt 420
ttcatagtgc agtaagtttg gacccaatta aatcctttga agctcctgca accatcaatt 480
ctgcatctct tcatcctgag aaagaatttc ttgttgcagg cggtgaagat tttaaacttt 540
ataagtatga ttataatagt ggagaagaat tagaatccta caagggacac tttggtccta 600
ttcactgtgt gagatttagt cctgatggag aactctatgc cagtggttca gaagatggaa 660
cattgagact atggcaaact gtggtaggaa aaacgtatgg cctttggaaa tgtgtgcttc 720
ctgaagaaga tagtggtgag ctggcaaagc caaagattgg ttttccagag acaacagaag 780
aggagctaga agaaattgct tcagagaatt cagattgcat ctttccttca gctcctgatg 840
ttaaggcctg agcgtcaatc atatgttgca gttagtatac aactgactaa aacaagcaag 900
cagagaaaag catcagcctt ccagagttac tgtctgctta aggcagaaac agcagtaaat 960
aatgaggaaa atgaattagc tccagtgctg gaacaactaa ctaacttggt gttacctgta 1020
agtgaaaact caagtgtcag atgaagggag gtggagttat cctcttatag tacagtggcc 1080
tgttatcttt ttaatgaata tatacaagcc aacatccaat ttctattatt acaattaggg 1140
ttcttgtagc tgtttatgtt aatatggaga agaaaactat attggctgat ttttctgat 1200
cttaaagcag aatgcctttt cttttttttgc ttcagttgta aagaagaggg aatacatgat 1260
aaagtaactg gtttgatttc tcgttcattg tacactgcct ctgaacatct aattgttttt 1320
agttgtctaa ataaaatgcc tctaaaacaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanaa           1430
```

<210> 521
<211> 1169
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1159)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1166)
<223> n equals a,t,g, or c

<400> 521
gcccacgcgt ccgcccacgm gyccgcgtgg agttgtgaac gccgcggact ccggagccgc 60
acaaaccagg gctcgccatg aagccaggat tcagtccccg tggggtggc tttggcggcc 120
gaggggcctt tggtgaccgt ggtggtcgtg gaggccgagg gggctttggc gggggccgag 180
gtcgaggcgg aggctttaga ggtcgtggac gaggaggagg tggaggcggc ggcggcggtg 240
gaggaggagg aagaggtggt ggaggcttcc attctggtgg caaccggggt cgtggtcggg 300
gaggaaaaag aggaaaccag tcggggaaga atgtgatggt ggagccgcat cggcatgagg 360
gtgtcttcat ttgtcgagga aaggaagatg cactggtcac caagaacctg gtccctgggg 420
aatcagttta tggagagaag agagtctcga tttcggaagg agatgacaaa attgagtacc 480
gagcctggaa cccccttccgc tccaagctag cagcagcaat cctgggtggt gtggaccaga 540
tccacatcaa accgggggct aaggttctct acctcggggc tgcctcgggc accacggtct 600
cccatgtctc tgacatcgtt ggtccggatg gtctagtcta tgcagtcgag ttctcccacc 660
gctctggccg tgacctcatt aacttggcca agaagaggac caacatcatt cctgtgatcg 720
aggatgctcg acacccacac aaataccgca tgctcatcgc aatggtggat gtgatctttg 780
ctgatgtggc ccagccagac cagacccgga ttgtggccct gaatgcccac accttcctgc 840
gtaatggagg acactttgtg atttccatta aggccaactg cattgactcc acagcctcag 900
ccgaggccgt gtttgcctcc gaagtgaaaa agatgcaaca ggagaacatg aagccgcagg 960
agcagttgac ccttgagcca tatgaaagag accatgccgt ggtcgtggga gtgtacaggc 1020
cacccccccaa ggtgaagaac tgaagttcag cgctgtcagg attgcgagag atgtgtgttg 1080
atactgttgc acgtgtgttt ttctattaaa agactcatcc gtcaaaaaaa aaaaaaaaa 1140
argggggggcc gctaggggnt ccaagntta   1169

<210> 522
<211> 2162
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2133)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2136)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2139)
<223> n equals a,t,g, or c

<400> 522
gccgggcgcg gagaagtcgg ggcgggcggc agagaggccg ggacgcggac cgggccgggg 60
cgcccacagc cgcccgacgg cgcccagaga gcgcgcgccc cgcagccccg cgcctagccc 120

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gccgggcatg gggcgcgcgg cagccgctga agccccggcc tggcccggnc gcacccggcc 180
ggaggcggag ggcagagcgc gcgcccagtt gcccgggcac caaatcggag cgcggcgtgc 240
gggagggccc agagcaggac tggaaatgtc ctggccgcgc cgcctcctgc tcagatacct 300
gttcccggcc ctcctgcttc acgggctggg agagggttct gccctccttc atccagacag 360
caggtctcat cctaggtcct tagagaaaag tgcctggagg gcttttaagg agtcacagtg 420
ccatcacatg ctcaaacatc tccacaatgg tgcaaggatc acagtgcaga tgccacctac 480
aatcgagggc cactgggtct ccacaggctg tgaagtaagg tcaggcccag agttcatcac 540
aaggtcctac agattctacc acaataacac cttcaaggcc taccaatttt attatggcag 600
caaccggtgc acaaatccca cttatactct catcatccgg ggcaagatcc gcctccgcca 660
ggcctcctgg atcatccgag ggggcacgga agccgactac cagctgcaca acgtccaggt 720
gatctgccac acagaggcgg tggccgagaa gctcggccag caggtgaacc gcacatgccc 780
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ccgggtggag aagcagtacc ttcaccacaa cctcgaccac ctggtcgagg agctcttcct 960
tggtgacatt cacactgatg ccacccagag gatgttctac cggccctcca gttaccagcc 1020
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gtcagacgag caccaccctc ccatcctgcc cccaaaggca gacctgacca tcggcctgca 1140
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cttcatcttc catgacaaca acaacacctg ggagggccac tactaccact actcagaccc 1260
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cctgggcatc aaactacctc acacggagta cgagatcttc aaaatggaac aggatgcccg 1560
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cacctggtcc ctgctgctgg ctgcacttgc ctgycttgtc cctctgctgc attggaacat 1800
ccgcagatag aagttttaga aagttctatt tttccaaacc aggattcctt actattgaca 1860
gatttkcttt accaaaagaa aagacattta ttcttttgat gcacttgaat gccagagaac 1920
tgtccttctt tttctcctct ccctccctcc cagcccctga gtcatgaaca gcaaggagtg 1980
tttgaagttt ctgctttgaa ctccgtccag cctgatccct ggcctgagca acttcacaac 2040
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aagctaccww atttttttct cttrattatt tgnacnaant tgagtagaag ttatttccct 2160
tt                                                           2162
```

<210> 523
<211> 799
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (758)
<223> n equals a,t,g, or c

445

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<400> 523
tctctctccc tctcttcctt cccctgccc caaaactaaa gtaaaataac gttaactgcc 60
cgttttctg taaccagcag accttatcta tactcccaat tccaattcct tgtaaacata 120
ctttgtaaag tcctgtaaga tcctgtctcc tttgccatga cgctgcaagg tcataaagta 180
gataaaacct aagttgcaat tccggttttc ctcaagatct aagacatgtt acaaatggtt 240
aattgccttt gtttctcgct ttggtaacat cttcccgcct caggtatttc ccgccttgaa 300
gagtttaaaa ggcaatccta taatctaact ctggctaccc attctggacc ccctccatgc 360
tttggaagct ttgtactttc actctgctca ataaagcctr cagctttttc tcactctcag 420
tccatgtctc tttcactcac tgnggtcagc ttccacacca tttctttggt gtggcttggc 480
aagaacctca ggtgttacat cttggcgagc cagacaggag actccagaaa aggatcaaag 540
ccatcaagct acaaatatc ttacaaatgg aacctcaaat gagctcagct cacggcttct 600
accgaggacc cctggwtcaa cccgctggtc cctcaattac cctagaaaat tccctctgg 660
aggacaccaa actgcaggc cccttyttca cccctaacca gcaggaagta gccagaacgg 720
actgccacam ggttcccaac agcarttkgg ggtgtccngt tttagaggca ggatttagag 780
gaggtgccca attgggttt                                           799
```

```
<210> 524
<211> 1722
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c
```

```
<400> 524
ttccacgcgt ttnagagaag ggaactccca cagcanaggn cataaaacca tccagggcag 60
tctggggcgg ctcagttctg cggtgccagg gagtggagca gagctcagcc ccgtcccaaa 120
yacagatggg accatgaact ccggacacag cttcagccag accccctcgg cctccttcca 180
tggcgccgga ggtggctggg gccggcccag gagcttcccc agggctccca ccgtccatgg 240
cggtgcgggg ggagcccgca tctccctgtc cttcaccacg cggagctgcc caccccctgg 300
agggtcttgg ggttctggaa gaagcagccc cctactaggc ggaaatggga aggccaccat 360
gcagaatctc aacgaccgcc tggcctccta cctggagaag gttcgcgccc tggaggaggc 420
caacatgaag ctggaaagcc gcatcctgaa atggcaccag cagagagatc ctggcagtaa 480
gaaagattat tcccagtatg aggaaaacat cacacacctg caggagcaga tagtggatgg 540
taagatgacc aatgctcaga ttattcttct cattgacaat gccaggatgg cagtggatga 600
yttcaacctc aagtwtgaaa atgaacactc ctttaaaaaa gacttggaaa ttgaagtcsa 660
gggcctccga aggaccttag acaacctgac cattgtcaca acagacctag aacaggaggt 720
ggaaggaatg aggaaagagc tcattctcat gaagaagcac catgagcagg aaatggagaa 780
gcatcatgtg ccaagtgact tcaatgtcaa tgtgaaggtg gatacaggtc ccagggaaga 840
```

```
tctgattaag gtcctggagg atatgagaca agaatatgag cttataataa agaagaagca 900
tcgagacttg gacacttggt ataaagaaca gtctgcagcc atgtcccagg aggcagccag 960
tccagccact gtgcagagca gacaaggtga catccacgaa ctgaagcgca cattccaggc 1020
cctggagatt gacctgcagr cacagtacag cacgaaatct gctttggaaa acatgttatc 1080
cgagacccag tctcgktact cctgcaagct ccaggacatg caagagatca tctcccacta 1140
tgaggaggaa ctgacgcagc tacgccayga actggagcgg cagaacaatg aataccaagt 1200
gctgctgggc atcaaaaccc acctggagaa ggaaatcacc acgtaccgac ggctcctgga 1260
gggagagagt gaagggacac gggaagaatc aaagtcgagc atgaaagtgt ctgcaactcc 1320
aaagatcaag gccataaccc aggagaccat caacggaaga ttagttcttt gtcaagtgaa 1380
tgaaatccaa aagcacgcat gagaccaatg aaagtttccg cctgttgtaa aatctatttt 1440
cccccaagga aagtccttgc acagacacca gtgagtgagt tctaaaagat acccttggaa 1500
ttatcagact cagaaacttt tatttttttt ttctgtaaca gtctcaccag acttctcata 1560
atgctcttaa tatattgcac ttttctaatc aaagtgcgag tttatgaggg taaagctcta 1620
ctttcctact gcagccttca gattctcatc attttgcatc tattttgtag ccaataaaac 1680
tccgcactag caaaaaaaaa aaaaaaaaa aaaaagttcg ac                       1722
```

<210> 525
<211> 562
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (515)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (526)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (557)
<223> n equals a,t,g, or c

<400> 525
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tcccgggccc gagggcatca gacggcggct gattagctcc ggtttgcatc acccggaccg 60
ggggattagc tccggtttgc atcacccgga ccggggggatt agctccggtt tgcatcaccc 120
ggaccggggg ccgggcgcgc acgagactcg cagcggaagt ggaggcggct ccgcgcgcgt 180
ccgctgctag gacccgggca gggctggagc tgggctggga tcccgagctc ggcagcagcg 240
cagcgggccg gcccacctgc tggtgccctg gargctctga gccccggcgg cgcccgggcc 300
cacgcggaac gacggggcga gatgcgagcc acccctctgg ctgctcctgc gggttccctg 360
tccaggaaga agcggttgga gttggatgac aacttagata ccgagcgtcc cgtccagaaa 420
cgagctcgaa gtgggcccca gcccagactg cccccctgcc tgttgcccct gagcccacct 480
actgctccag atcgtgcaac tgctgtggsc actgnctccc gtyttnggsc ctatgtccty 540
ctkgaagccc gaagaanggc gg                                            562
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<210> 526
<211> 2023
<212> DNA

447

<213> Homo sapiens

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<400> 526
aaagtgataa cncaactaat ggttgtggac ttgaatctyc aggaaatact gttacacctg 60
taaatgttaa tgaagttaaa cccataaaca aaggtgaaga acaaattggt tttgagctag 120
tggagaaatt atttcaaggt cagctggtat taaggacgcg ttgcttggaa tgtgaaagtt 180
taacagaaag aagagaagat tttcaagaca tcagtgtgcc agtacaagaa gatgagcttt 240
ccaaagtaga ggagagttct gaaatttctc cagagccaaa aacagaaatg aagaccctga 300
gatgggcaat ttcacaattt gcttcagtag aaaggattgt aggagaagat aaatattct 360
gtgaaaactg ccatcattat actgaagctg aacgaagtct tttgtttgac aaaatgcctg 420
aagttataac tattcatttg aagtgctttg ctgctagtgg tttggagttt gattgttatg 480
gtggtggact ttccaagatc aacactcctt tattgacacc tcttaaattg tcactagaag 540
aatggagcac aaagccaact aacgacagct atggattatt tgcggttgtg atgcatagtg 600
gcattacaat tagtagtggg cattacactg cttctgttaa agtcactgac cttaacagtt 660
tagaactaga taaaggaaat tttgtggttg accaaatgtg tgaaataggt aagccagaac 720
cattgaatga ggaggaagca aggggtgtgg ttgagaatta taatgatgaa gaagtgtcaa 780
ttagagttgg tggaaataca cagccaagta aagtttgaa caaaaaaat gtagaagcta 840
ttggacttct tggaggacaa aagagcaaag cagattatga gctatacaac aaagcctcta 900
atcctgataa ggttgctagt acagcgtttg ctgaaaatag aaattctgag actagtgata 960
ctactgggac ccatgaatct gatagaaaca aggaatccag tgaccaaaca ggcattaata 1020
ttagtggatt tgagaacaaa atttcatacg tagtgcaaag cttaaaggag tatgaggggga 1080
agtggttgct ttttgatgat tctgaagtca aagttactga agagaaggac tttctgaatt 1140
ctctttcccc ttctacatct cctacttcta ctccttactt gctattttat aagaaattat 1200
agagtgagtg tattttcctt gtgtatatat taaacacacc catacaaaca ttggtaaagt 1260
tgattacatc aaagaatctt tagcttatct tttgaagcta ctggatatta ttggtctctc 1320
taggttttta tataaatagt gaaatytgaa ttactgaaaa ccatgttaat ttttagaact 1380
cattttcctc agtagagact agtgatgcat tagcttctgg gaacaaactt gtatcggttc 1440
ttaattaaat tatccaaaac ggaggcattt aaacacttgg atttacacca gtcttttgtg 1500
tttgcttttt aaaataaagt gctcgtattt gtattctcca tattttggag taattatcta 1560
catgatgttt atagttcctg tggttttttca cccaagaagc agaatctcat tcagtacatt 1620
tagtttata agagtcatga agctaaatcc ttgggctatg tcagaggcac aaagtctaga 1680
atgtgtgtat tcacaatggt gtatgtacat tttgtgcctt gattcactta gaagtgtctc 1740
agaaaacctg gacagttcgc ttctacacaa gaattttata tgtatttatg aagatgattc 1800
tgtaccctag tatatctttt tgggcatgga ctaatttgta tctgtttaac tcatattctg 1860
cacgatctgt atatagtaca tcaaacttag aggtgtgacc ttaaattaa cttttttaa 1920
aaactgggag gtcaataaaa tttaaactgc ttaactatgt atatgaatat ttgaattttt 1980
tacttgtata tttttataaa tacagctgag ttttcttaaa gcg   2023

<210> 527
<211> 2847
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (286)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (290)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2842)
<223> n equals a,t,g, or c

<400> 527
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ggcacaggtt attctgtgtc tttcatagta gaaaccttaa tgatcggtct gttgtagtga 60
actctttaaa aaggcgctat agaaaaccaa tttctgagta aaccagcaga cagcatgact 120
tgtaaatggt cttttaatta attaaaaaga aattagtcag ctacaagcat gaacatgtgg 180
aacgcttacc tttgtactag gcgttttgt ttttgtttta atggcttttg gaatattata 240
gtattaacat ctggaaaact aggtaaattt atcttagaat taagtntttn gctccttttt 300
tgcagaaaaa gaacagcaag aagcgattga acacattgat gaagtacaaa atgaaataga 360
cagacttaat gaacaagcca gtgaggagat tttgaaagta gaacagaaat ataacaaact 420
ccgccaacca tttttcaga agaggtcaga attgatcgcc aaaatcccaa atttttgggt 480
aacaacattt gtcaaccatc cacaagtgtc tgcactgctt ggggaggaag atgaagaggc 540
actgcattat ttgaccagag ttgaagtgac agaatttgaa gatattaaat caggttacag 600
aatagatttt tattttgatg aaaatcctta ctttgaaaat aaagttctct ccaaagaatt 660
tcatctgaat gagagtggtg atccatcttc gaagtccacc gaaatcaaat ggaaatctgg 720
aaaggatttg acgaaacgtt cgagtcaaac gcagaataaa gccagcagga agaggcagca 780
tgaggaacca gagagcttct ttacctggtt tactgaccat tctgatgcag gtgctgatga 840
gttaggagag gtcatcaaag atgatatttg gccaaaccca ttacagtact acttggttcc 900
cgatatggat gatgaagaag gagaaggaga agaagatgat gatgatgatg aagaggagga 960
aggattagaa gatattgacg aagaagggga tgaggatgaa ggtgaagaag atgaagatga 1020
tgatgaaggg gaggaaggag aggaggatga aggagaagat gactaaatag aacactgatg 1080
gattccaacc ttcctttttt taaattttct ccagtccctg ggagcaagtt gcagtctttt 1140
tttttttttt ttttttttcc ctcttgtgct cagtcgccct gttcttgagg tctcttttct 1200
ctactccatg gttctcaatt tatttggggg gaaatacctt gagcagaata caatgggaaa 1260
agagtctcta cccctttctg ttcgaagttc attttatcc cttcctgtct gaacaaaaac 1320
tgtatggaat caacaccacc gagctctgtg ggaaaaaaga aaaacctgct cccttcgctc 1380
tgctggaagc tggaggatgc taggcccctg tgtagtagtg catagaattc tagctttttt 1440
cctcctttct ctgtatattg ggctcagaga gtacactgtg tctctatgtg aatatggaca 1500
gttagcattt accaacatgt atctgtctac tttctcttgt ttaaaaaaag aaaaaaaaac 1560
ttaaaaaaat ggggttatag aaggtcagca aagggtgggt ttgagatgtt tgggtgggtt 1620
aagtgggcat tttgacaaca tggcttctcc tttggcatgt ttaattgtga tatttgacag 1680
acatccttgc agtttaagat gacactttta aaataaattc tctcctaatg atgacttgag 1740
ccctgccact caatgggaga atcagcagaa cctgtaggat cttatttgga attgacattc 1800
tctattgtaa ttttgttcct gtttattttt aaattttctt tttgtttcac tggaaaggaa 1860
agatgatgct cagtttaaa cgttaaaagt gtacaagttg ctttgttaca ataaaactaa 1920
atgtgtacac aaaggatttg atgcttttct ctcagcatag gtatgcttac tatgaccttc 1980
caagtttgac ttgtataaca tcactgtcaa actttgtcac cctaacttcg tattttttga 2040
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gtattaatat ctccatagct gggaaacgtg ggttcaattt gccattggtt tctgaaagta 2160
ttcacatcat ttgggatacc agatagctca atactctctg agtacattgt gcccttgatt 2220
tttatctcca agtggcagtt tttaaaattg gcctttttacc tggatataaa ttaattgtgc 2280
```

449

```
ctgccaccac catccaacag acctggtgct ctaatgccaa gttatacacg ggacagttgc 2340
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ctgatggtga gcagtaactg tccctgcttt ctggtataaa gctctcaaat gtgaccatgt 2460
gaatctgggt gggataatgg actcagctct gtctgctcaa tgccattgtg cagagaagca 2520
ccctaatgca taagcttttt aatgctgtaa aatatagtcg ctgaaattaa atgccacttt 2580
ttcagaggtg aattaatgga cagtctggtg aacttcaaaa gctttttgat gtataaaact 2640
tgataaatgg aactattcca tcaataggca aaagtgtaac aacctatcta gatggatagt 2700
atgtaatttc tgcacaggtc tctgtttagt aaatacatca ctgtataccg atcaggaatc 2760
ttgctccaat aaaggaacat aaagatttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2820
aaaaaaaaaa aaaaaaaaaa anaaaaa                                    2847
```

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<210> 528
<211> 816
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

<400> 528
aaaacgantg tgtaattaac anaggctgtg cgcatgaacg ttgccgttat ggttcgcgaa 60
ttttccccgg cgcccaatgc gagggagacg aaantatgta aatgagtgga ttctggctga 120
gctatcctat tggctatcgg gacaaaattt gcttgagcca atccaaagtg ctccgtggac 180
aatcgccgtt ctgtctataa aaaggtgaag cagcggcgtt ttcggcgact ttcccgatcg 240
ccaggcagga gtttctctcg gtgactacta tcgctgtcat gtctggtcgt ggcaagcaag 300
gaggcaaggc ccgcgccaag gccaagtcgc gctcgtcccg cgctggcctt cagttcccgg 360
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ccgtctacat ggctgcggtc ctcgagtatc tgaccgccga gatcctggag ctggcgggca 480
acgcggctcg ggacaacaag aagacgcgca tcatccctcg tcacctccag ctggccatcc 540
gcaacgacga ggaactgaac aagctgctgg gcaaagtcac catcgcccag ggcggcgtct 600
tgcctaacat ccaggccgta ctgctcccta agaagacgga gagtcaccac aaggcaaagg 660
gcaagtgagg ctgacgtccg cccaagtggc ccagcccggc ccgcgtctcg aaggggcacc 720
tgtgaactca aaaggctctt ttcagagcca cccacgtttt caaataaaag agttgttaat 780
gctggcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa                          816
```

```
<210> 529
<211> 885
<212> DNA
<213> Homo sapiens
```

<400> 529
ggcagttacc ggtgccgtaa ttcccgggtc ggacccacgc gctctgtcgt ggcgcggctt 60
cccgcggtct tctctgcaaa tgggctccgt ggcctagcgc ccccgtcccc gccacccgtg 120
atcgtgcgcc gaggcccgcg aggggtcgcc gcccagatcc caccagccag caagctaaag 180
catggcggcc atcccctcca gcggctcgct cgtggccacc cacgactact accggcgccg 240
cctgggttcc acttccagca acagctcctg cagcagtacc gagtgccccg gggaagccat 300
tccccacccc ccaggtctcc ccaaggctga cccgggtcat tggtgggcca gcttcttttt 360
cgggaagtcc accctcccgt tcatggccac ggtgttggag tccgcagagc actcggaacc 420
tccccaggcc tccagcagca tgaccgcctg tggcctggct cgggacgccc cgaggaagca 480
gcccggcggt cagtccagca cagccagcgc tgggcccccg tcctgacctg agcggttacc 540
accagcccca ggcctgcgga ggcgctagtc caccagagcc cctyccgcc cctctcccca 600
ctccgcatcc ctcgcccccc tccccacctc ccacccccca ccctgtaaac taggcggctg 660
cagcaagcag accttcgcat caacacagca gacaccaaaa accagtgaga gccccgctct 720
ctaccgcccg gccccagcac tcgctagctt tcctgacacc tggaactgtg cacctggcac 780
caagcggaaa ataaactcca agcagccagt agccccgatg gtgtgtgcct gagctgtgtg 840
gcccgaggtt ccaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa   885

<210> 530
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (693)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (695)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (715)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (730)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (741)
<223> n equals a,t,g, or c

<400> 530
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aaggtacagg cctcagggtc cctgctgtag acggggcggg ggagagtacg atgggtgggg 120

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cgtggtgggt cgtagggcgc tcgagatgga gcccccagct tccttgatgg atcgcggggc 180
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cgcattggaa gaacgcggtg ggcttctggc tgctgggcct ttgcaacaac ttctcttatg 480
tggtgatgct gagtgccgcc cacgacatcc ttagccacaa gaggacatcg ggaaaccaga 540
gccatgtgga cccaggccca acgccgatcc cccacaacag ctcatcacga tttgactgca 600
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tgttggstyc tyttggsctt cacctgctgc ccntnaccgt tgaggatgct gtgantctct 720
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<210> 531
<211> 525
<212> DNA
<213> Homo sapiens

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<222> (502)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (510)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (523)
<223> n equals a,t,g, or c

<400> 531
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cgarcctcgg gtggtcctca gggagggtct ctcggccaga acacgtggat gcccacccac 120
cactgagcct catggaggtg gtaacatttg gcgatgtggc tgtgcacttc tctcgggagg 180
agtggcagtg tctggaccct ggccagaggg ccctctacag ggaagtgatg ctggagaacc 240
acagcagtgt ggctggacta gcaggattcc tggttttcaa gcctgagctg atctctcggc 300
tggagcaggg agaagagcca tgggtcctcg acctgcargg agcagagggg acagaggcac 360
caargacctc caagacaggt gaggcttaga tcccatcgca gagaagccct ggggtgarga 420
gaaactkcar gaggggctca caactgtrgg tagctgtagg tgartcgcgg gggctacact 480
kggatgcctg ggaatgctac tnggggaaan cagcatccaa canct          525
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<210> 532
<211> 1925
<212> DNA
<213> Homo sapiens

<400> 532
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aagatggact ctactctaac agcaagtgaa atccggcagc gatttataga tttcttcaag 180
aggaacgagc atacgtatgt tcactcgtct gccaccatcc cattggatga ccccactttg 240
ctctttgcca atgcaggcat gaaccagttt aaacccattt tcctgaacac aattgaccca 300
tctcaccocca tggcaaagct gagcagagct gccataccc agaagtgcat ccgggctggg 360
ggcaaacata atgacctgga cgatgtgggc aaggatgtct atcatcacac cttcttcgag 420
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ggggg                                                           1925
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<210> 533
<211> 502
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (469)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (482)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (487)
<223> n equals a,t,g, or c

453

<400> 533
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tcgctccacc ttctccacca actaccggtc cctgggctct gtccaggcgc ccagctacgg 180
cgcccggccg gtcagcagcg cggccagcgt ctatgcaggc gctgggggct ctggttcccg 240
gatctccgtg tcccgctcca ccagcttcag gggcggcatg gggtccgggg gcctggccac 300
cgggatagcc gggggtctgg caggaatggg agcatccaga acgagaagga gaccatgcaa 360
aagctgaacg accgcctggc ctcttacctg gacaaaatga aggagcctgg agaccgagaa 420
accggaggct ggaaagcaaa aacccgggag cactttggag aagaagganc ccaggtcaga 480
gnctggnagc cattaattca ag                                        502
```

<210> 534
<211> 1800
<212> DNA
<213> Homo sapiens

<400> 534
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tggactcggt ggagaagggg gccgccacct ccgtctccaa cccgcggggg cgaccgtccc 180
ggggccggcc gccgaagctg cagcgcaact ctcgcggcgg ccaggccga ggtgtggaga 240
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agaacattaa gcacctggcg ggggtcccgc tcattggctg ggtcctgcgt gcggccctgg 360
attcaggggc cttccagagt gtatgggttt cgacagacca tgatgaaatt gagaatgtgg 420
ccaaacaatt tggtgcacaa gttcatcgaa gaagttctga agtttcaaaa gacagctcta 480
cctcactaga tgccatcata gaatttctta attatcataa tgaggttgac attgtaggaa 540
atattcaagc tacttctcca tgtttacatc ctactgatct tcaaaaagtt gcagaaatga 600
ttcgagaaga aggatatgat tctgttttct ctgttgtgag acgccatcag tttcgatgga 660
gtgaaattca gaaaggagtt cgtgaagtga ccgaacctct gaatttaaat ccagctaaac 720
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gtttgtgtgc tttcaaagat gttgggattt tatttatctg gggacagtgt gtatggtaag 1740
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<210> 535
<211> 2497

454

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2467)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2487)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2493)
<223> n equals a,t,g, or c

<400> 535
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ttggccatgc acggcttctc ggtgaccctc ctggggttct gcaactccaa accccatgat 240
gagctcttgc agaacaacag aattcagatt gtggggttga cagaacttca gagtcttgca 300
gttgggcccc gagttttcca gtacggagtc aaagttgtac ttcaggctat gtacttgctg 360
tggaagttga tgtggaggga gccaggtgcc tatatctttc tccagaaccc cccaggtctg 420
cctagcattg ctgtctgctg gttcgtgggc tgcctttgtg aagcaagct cgtcattgac 480
tggcacaact atggctactc catcatgggt ctggtgcatg gccccaacca tcccctcgtt 540
ctgctggcca agtggtacga gaagttcttt gggcgcctgt cccacctgaa cctgtgtgtt 600
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gacaagcccg catctttctt taaagagaca cctctggacc tgcagcaccg gctcttcatg 720
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ggatgtggca gctgcagtgg gcttggcttt gtgaggaact gagtgtgtcc acgttggggg 1860
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455

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ctcccagcag gcagccagcc tccgcaggac sccgaccags gacaygatgg cttctgggca 2400
atacagcacg tctacggtga aagcttcagg ttactgctgt aatgacaaca tctggctgga 2460
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<210> 536
<211> 4090
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (528)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (535)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2475)
<223> n equals a,t,g, or c

<400> 536
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gaaggtggag gtggaggcag ggaaggagaa catgaagttt gagacgggcg ccttctccta 780
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acctacaggc tagtggtttc aaagttggag tgttcatccc ttgaagaacc tgagttacgt 4020
cactataccc actctcaaag ttgcagctct gcagggact cccatggtgc tgtacaggtg 4080
ctactctgcc                                                         4090
```

<210> 537
<211> 586
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<400> 537
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cgcgggcgcg gggccgctac gtgcgcgggg agcgcggggа gcgcggggag cgcggnggct 60
gcgctcgtgt gcgctcctgg gcgctcgccg ccgccgctgc cgccgcgcgc ctttgagtca 120
gcaaactccg cggcccgcaa gcccggctcg gcccggccct gctctgttct gcccggagga 180
gccgcccatt gatcgtgtcc tgtgctgaag atgtttccgg aacaacagaa agaggaattt 240
gtaagtgtct gggttcgaga tcctaggatt cagaaggagg acttctggca ttcttacatt 300
gactatgaga tatgtattca tactaatagc atgtgtttta caatgaaaac atcctgtgta 360
cgaagaagat atagagaatt cgtgtggctg aggcagagac tccaaagtaa tgcgttgctg 420
gtacaactgc cagaacttcc atctaaaaac ctgtttttca acatgaacaa tcgccagcac 480
gtggatcagc gtcgccaggg tctgggaaat ttcctcagaa aagtcctaca gatgcacttt 540
tgctttcaga tagcagcctt cacctcttcc ttacagagcc atctga         586
```

<210> 538
<211> 1250
<212> DNA
<213> Homo sapiens

<400> 538
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aattcggcac gagctctccc ttcggcttct ctctttcggc cggcgccgcc agttcctggg 60
gcacacccag aggtcccctt ctcgccgccg cctgcaactg cgagggtagc ccggggccgc 120
ttggagtcgc ccggacctga gaggctgctg cactgggcct cagccagccc tccggatgct 180
ggtgctgcca tccccctgcc ctcagcctct ggcattttcc tccgttgaga ccatggaggg 240
ccctcccgt cggacttgcc gctccccaga acctggacct tcctcctcca tcggatctcc 300
ccaggcttca tctcctccaa ggcccaacca ctacctgctt attgacactc agggtgtccc 360
ctacacagtg ctggtggacg aggagtcaca gagggagcca ggggccagtg gggctccagg 420
ccagaaaaag tgctacagct gccccgtgtg ctcaagggtc ttcgagtaca tgtcctacct 480
tcagcgacac agcatcaccc actcggaggt aaagcccttc gagtgtgaca tctgtgggaa 540
ggcattcaag cgcgccagcc acttggcacg gcaccattcc attcacctgg cgggtggtgg 600
gcggcccac ggctgcccgc tctgccctcg ccgcttccgg gatgcgggtg agctggccca 660
gcacagccgg gtgcactctg gggaacgccc gtttcagtgt ccacactgcc ctcgccgctt 720
tatggagcag aacacactgc agaaacacac gcggtggaag catccatgag ccgggctgcc 780
gggtgcccca ggtaccacag gactttgcag ggagcctgga ctcctgtcca gacacctggt 840
gagagcctga ggctggtgtt cagggccctg gacacagaca cagagcagcc gcatctcaaa 900
rgcagagccc tgcctgaagg aggaatccgt gagtaatctt caggtcctcc gtgttctgga 960
gctgagatgg gaatgagccc ctacacagaa tggagtcctc tagcctaaag atatcagctg 1020
ttccatggca gagccttgac tggatggagg tggggagtgt ggtgtgtaaa gtctctggcc 1080
```

458

```
tcataaaagg tggctgtggg tcgtcaggaa tctgcgccat cttcctgggg cttctgcgct 1140
gttgttgggg aagggacccc agtcctgcct tccacccccc aaccaggcct gagactgatc 1200
aaacaataaa cacgtttccc actctgaaaa aaaaaaaaaa aaaaaaaaa       1250
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<210> 539
<211> 1350
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1305)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1349)
<223> n equals a,t,g, or c

<400> 539
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ggcagagcac atgcgcaccg cagcgggtcg cgcgccctaa ggagtggcac tttttaaaag 60
tgcagccgga gaccagccta cagccgcctg catctgtatc cagcgccagg tcccgccagt 120
cccagctgcg cgcgccccccc agtcccgcac ccgttcggcc caggctaagt tagccctcac 180
catgccggtc aaaggaggca ccaagtgcat caaatacctg ctgttcggat ttaacttcat 240
cttctggctt gccgggattg ctgtccttgc cattggacta tggctccgat tcgactctca 300
gaccaagagc atcttcgagc aagaaactaa taataataat tccagcttct acacaggagt 360
ctatattctg atcggagccg gcgccctcat gatgctggtg ggcttcctgg gctgctgcgg 420
ggctgtgcag gagtcccagt gcatgctggg actgttcttc ggcttcctct tggtgatatt 480
cgccattgaa atagctgcgg ccatctgggg atattcccac aaggatgagg tgattaagga 540
agtccaggag ttttacaagg acacctacaa caagctgaaa accaaggatg agccccagcg 600
ggaaacgctg aaagccatcc actatgcgtt gaactgctgt ggtttggctg ggggcgtgga 660
acagtttatc tcagacatct gccccaagaa ggacgtactc gaaaccttca ccgtgaagtc 720
ctgtcctgat gccatcaaag aggtcttcga caataaattc cacatcatcg gcgcagtggg 780
catcggcatt gccgtggtca tgatatttgg catgatcttc agtatgatct tgtgctgtgc 840
tatccgcagg aaccgcgaga tggtctagag tcagcttaca tccctgagca ggaaagttta 900
cccatgaaga ttggtgggat ttttgttttg tttgttttgt tttgtttgtt gtttgttgtt 960
tgttttttttg ccactaattt tagtattcat tctgcattgc tagataaaag ctgaagttac 1020
tttatgtttg tcttttaatg cttcattcaa tattgacatt tgtagttgag cgggggggttt 1080
ggtttgcttt ggtttatatt ttttcagttg tttgttttg cttgttatat taagcagaaa 1140
tcctgcaatg aaaggtacta tatttgctag actctagaca agatattgta cataaaagaa 1200
ttttttgtc tttaaataga tacaaatgtc tatcaacttt aatcaagttg taacttatat 1260
tgaagacaat ttgatacata ataaaaaatt atgacaatgt cctgnaaaaa aaaaaaaaaa 1320
aaaagggcgg ccgccccaga gganccccng       1350
```

<210> 540
<211> 2509

459

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (367)
<223> n equals a,t,g, or c

<400> 540
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ccntgctggg aactagtggg tcccccgggc tggcaggnaa ttcgggcasa gccggccaca 60
gtccaccgcg cggagattct cagcttcccc aggagcaaga cctctgagcc cgccaagcgc 120
ggccgcacgg cctcggcagc gatggcactg aaggactacg cgctagagaa ggaaaaggtt 180
aagaagttct tacaagagtt ctaccaggat gatgaactcg ggaagaagca gttcaagtat 240
gggaaccagt tggttcggct ggctcatcgg gaacaggtgg ctctgtatgt ggacctggac 300
gacgtagccg aggatgaccc cgagttggtg gactcaattt gtgagaatgc caggcgctac 360
gcgaagntct ttgctgatgc cgtacaagag ctgctgcctc agtacaagga gagggaagtg 420
gtaaataaag atgtcctgga cgtttacatt gagcatcggc taatgatgga gcagcggagt 480
cgggaccctg ggatggtccg aagcccccag aaccagtacc ctgctgaact catgcgcaga 540
tttgagctgt attttcaagg ccctagcagc aacaagcctc gtgtgatccg ggaagtgcgg 600
gctgactctg tggggaagtt ggtaactgtg cgtggaatcg tcactcgtgt ctctgaagtc 660
aaacccaaga tggtggtggc cacttacact tgtgaccagt gtggggcaga gacctaccag 720
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aaccgctcag gagggcggct gtatctgcag acacggggct ccagattcat caaattccag 840
gagatgaaga tgcaagaaca tagtgatcag gtgcctgtgg gaaatatccc tcgtagtatc 900
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gaccgcacag ccatccacga ggtcatggag cagcagacca tctccattgc caaggccggc 1560
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gcccagcaca tcacctatgt gcaccagcac agccggcagc cccctccca gtttgaacct 1800
ctggacatga agctcatgag gcgttacata gccatgtgcc gcgagaagca gcccatggtg 1860
ccagagtctc tggctgacta catcacagca gcatacgtgg agatgaggcg agaggcttgg 1920
```

```
gctagtaagg atgccaccta tacttctgcc cggaccctgc tggctatcct gcgcctttcc 1980
actgctctgg cacgtctgag aatggtggat gtggtggaga aagaagatgt gaatgaagcc 2040
atcaggctaa tggagatgtc aaaggactct cttctaggag acaaggggca gacagctagg 2100
actcagagac cagcagatgt gatatttgcc accgtccgtg aactggtctc aggggggccga 2160
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gctggcctgc cccttgggaa ggggcagtga tgcctttgag gggaaggagg agcccctctt 2400
tctcccatgc tgcacttact ccttttgcta ataaaagtgt ttgtagattg tcaaaaaaaa 2460
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggag             2509
```

<210> 541
<211> 1743
<212> DNA
<213> Homo sapiens

<400> 541
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ccagctcacc gagagcctag ttccggccag ggtcgccccg gcaaccacga gcccagccaa 180
tcagcgcccc ggactgcacc agagccatgg tcggcagaag agcactgatc gtactggctc 240
actcagagag gacgtccttc aactatgcca tgaaggaggc tgctgcagcg gctttgaaga 300
agaaaggatg ggaggtggtg gagtcggacc tctatgccat gaacttcaat cccatcattt 360
ccagaaagga catcacaggt aaactgaagg accctgcgaa cttttcagtat cctgccgagt 420
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tgtatgacaa aggacccttc cggagtaaga aggcagtgct ttccatcacc actggtggca 660
gtggctccat gtactctctg caagggatcc acgggacat gaatgtcatt ctctggccaa 720
ttcagagtgg cattctgcat ttctgtggct tccaagtctt agaacctcaa ctgacatata 780
gcattgggca cactccagca gacgcccgaa ttcaaatcct ggaaggatgg aagaaacgcc 840
tggagaatat ttgggatgag acaccactgt attttgctcc aagcagcctc tttgacctaa 900
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tttccaggct tccctgactt gctttagttt ttaagatttg tgtttttctt tttccacaag 1140
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tatgattact atcatggcat ataaccaaaa tccgactggg ctcaagaggc cacttaggga 1260
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ttggtcagct tttgttgttt atatacagta cacagatacc ttgaaaggaa gagctaataa 1620
atctcttctt tgctgcagtc atctactttt tttttaatta aaaaaaattt ttttttgaac 1680
agcttgctct gtacccargc tggatgcart gggtgactcg gctcactgca acctctgcct 1740
ccc                                                              1743
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<210> 542
<211> 2210
<212> DNA

<210> Homo sapiens

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<400> 542
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ggactgagat cccagaacca tgaacctggc catcagcatc gctctcctgc taacagtctt 180
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gacccgtgag acaaagaagc acgtgctctt tggcactgtg ggggtgcctg agcacacata 360
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cactagcaag gacgagggca cctacacgtg tgcactccac cactctggcc attccccacc 480
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ggccacggat ttcatgtccc tgtgactggt ggggcccatg gaggagacag gaagcctcaa 660
gttccagtgc agagatccta cttctctgag tcagctgacc ccctccccsc aatccctcaa 720
accttgagga gaagtgggga ccccacccct catcaggagt tccagtgctg catgcgatta 780
tctacccacg tccacgcggc cacctcaccc tctccgcaca cctctggctg tcttttttgta 840
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aacctgggag agacttggat gaggagtggt tgggctgtgc ctgggcctag cacggacatg 1080
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ggcaccacca agaatttgtg gcctaccttg tgagggagag aactgagcat ctccagcatt 1200
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gcctccaagt caggtggggt ggagtcccag agctgcacag ggtttggccc aagtttctaa 1560
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ctcagacagc cccctgcccc gcaggcctgc cttctcaggg acttctgcgg ggcctgaggc 1680
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cagcccccac ccggtggttc ttcctgttct gtgactgtgt atagtgccac cacagcttat 1800
ggcatctcat tgaggacaaa gaaaactgca caataaaacc aagcctctgg aatctgtcct 1860
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taacgagaca catttgccca aataaacgaa catcccatgt ctgctgactc acctggctgg 2100
aacaacatgc ttactgccaa catgtgggcc gaaccacatg gccctggctt tggaatgcac 2160
aagtggcttt gcgtgaattt gcgctaagct atgcagtttg aaaaaaaaaa   2210

<210> 543
<211> 1715
<212> DNA
<213> Homo sapiens

<400> 543

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ggcacgagcg cactcccagc cggccgcagc ctgacacgcc gcgcggcccc ccagtctccc 60
gcggctgctc ccccaggcat ggcacagggc ctcgcctcac tatggcagca gcacggcaca 120
gcacgctcga cttcatgctc ggcgccaaag ctgatggtga gaccattcta aaaggcctcc 180
agtccatttt ccaggagcag gggatggcgg agtcggtgca cacctggcag gaccatggct 240
atttagcaac ctacacaaac aagaacggca gctttgccaa tttgagaatt tacccacatg 300
gattggtgtt gctggacctt cagagttatg atggtgatgc gcaaggcaaa gaagagatcg 360
acagtatttt gaacaaagta gaggaaagaa tgaaagaatt gagtcaggac agtactgggc 420
gggtgaaacg attaccaccc atagtgcgag gaggagccat cgacagatac tggcccaccg 480
ccgacgggcg cctggttgaa tatgacatag atgaagtggt atatgacgaa gattcacctt 540
atcaaaatat aaaaattcta cactcgaagc agtttggaaa tattctcatc cttagtgggg 600
atgttaattt ggcagagagt gatttggcat atacccgggc catcatgggc agtggcaaag 660
aagattacac tggcaaagat gtactcattc tgggaggtgg agacggaggc atattgtgtg 720
aaatagtcaa actaaaacca aagatggtca ctatggtaga gattgaccaa atggtgattg 780
atgggtgtaa gaaatacatg cgaaaaacgt gtggcgatgt cttagacaat cttaaaggag 840
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ggagagaatt tgattatgtg attaatgatt tgacagctgt tccaatctcc acgtctccag 960
aagaagattc cacatgggag tttctcagac tgattcttga cctctcaatg aaagtgttga 1020
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tctatgaaga acagctgggg cgcctgtatt gtcctgtgga attttcaaag gagatcgtct 1140
gtgtcccttc atacttggaa ttgtgggtat tttacactgt ttggaagaaa gctaaaccct 1200
gaagatcagt agcccctaat cacatgtgct gcaaatagcc ttcctgacct ccatatgctg 1260
tacatgacat caaaatgagt caggcaattg attgtgaatt ccttaaagtt ttcctttttt 1320
taataattat ttttaattta aaaaagcaaa tggaaaatgt atatttgat gagcttaggg 1380
tgttttttt ttgaaagtca gctgaaggat ggttagacag cacagcgaag actgctaaat 1440
gcactgaccc cccccattag aatgtgattt ttgttccttt ttatttctct gtgggctttt 1500
gtttttgttt ttgttttggt agatcttcaa tttggatatt tggaggagtg aacatcgttg 1560
ttttgctgga gggaagatct tgatggtgtt tctttcccca aaaattgact tagatattaa 1620
aatttggtgc ttataagaga gagttaaaaa aaaataggat tgcttcaatt aaaattacaa 1680
aagagamaaa aaaaaaaaaa aaagaaagtc gacgc                            1715
```

<210> 544
<211> 3109
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1011)
<223> n equals a,t,g, or c

<400> 544

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gaccaagata tggttttgga gaggcaggga agcctaaatt tggcattgaa cctaatgctg 180
agcttatata tgaagttaca cttaagagct tcgaaaaggc caaagaatcc tgggagatgg 240
ataccaaaga aaaattggag caggctgcca ttgtcaaaga gaagggaacc gtatacttca 300
agggaggcaa atacatgcag gcggtgattc agtatgggaa gatagtgtcc tggttagaga 360
tggaatatgg tttatcagaa aaggaatcga aagcttctga atcatttctc cttgctgcct 420
ttctgaacct ggccatgtgc tacctgaagc ttagagaata caccaaagct gttgaatgct 480
gtgacaaggc ccttggactg gacagtgcca atgagaaagg cttgtatagg aggggtgaag 540
```

463

```
cccagctgct catgaacgag tttgagtcag ccaagggtga ctttgagaaa gtgctggaag 600
taaaccccca gaataaggct gcaagactgc agatctccat gtgccagaaa aaggccaagg 660
agcacaacga gcgggaccgc agatatacgc caacatgttc aagaagtttg cagagcagga 720
tgccaaggaa gaggccaata aagcaatggg caagaagact tcagaagggg tcactaatga 780
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caggacagaa cagtgtttaa tgtaaagttt gttatagtct atgtgattct ggaagcaaat 960
ggcaaaacca gtagcttccc aaaaacagcc ccctgctgc tgcccggagg nttcactgag 1020
gggtggcacg ggaccactcc aggtggaaca aacagaaatg actgtggtgt ggagggagtg 1080
agccagcagc ttaagtccag ctcatttcag tttctatcaa ccttcaagta tccaattcag 1140
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<210> 545
<211> 1176
<212> DNA
<213> Homo sapiens

<400> 545
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ctcggggtgc tctactggaa gctggatgct gacaaatatg agaatgatcc agaattagaa 240
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<210> 546
<211> 1735
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<400> 546
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gtccacccca gcaggctggg tacgcgaggg tgacactgtc cagctgctct gccggggggga 180
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gaatgtgaat ctcgagggga acttgaccct ggagggagtg acccggggcc agagcgggac 300
ctatggctgc agagtggagg attacgacgc ggcagatgac gtgcagctct ccaagacgct 360
ggagctgcgc gtggcctatc tggaccccct ggagctcagc gaggggaagg tgctttcctt 420
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ccgccccacc ccatcatctg tggacactgg agtctggaat aaatgctgtt tgtcacatca 1680
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<210> 547
<211> 1048
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1043)
<223> n equals a,t,g, or c

<400> 547
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ttacccggtc tgagtacgac aggggcgtga atactttttc tcccgaagga agattatttc 180
aagtggaata tgccattgag gctatcaagc ttggttctac agccattggg atccagacat 240
cagagggtgt gtgcctagct gtggagaaga gaattacttc cccactgatg gagcccagca 300
gcattgagaa aattgtagag attgatgctc acataggttg tgccatgagt gggctaattg 360
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acaatgagac aatgacagtg gagagtgtga cccaagctgt gtccaatctg gctttgcagt 480
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ttggaggagt tgatgagaaa ggaccccagc tgtttcatat ggacccatct gggacctttg 600
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aagtttacca caagtctatg actttgaaag aagccatcaa gtcttcactc atcatcctca 720
aacaagtaat ggaggagaag ctgaatgcaa caaacattga gctagccaca gtgcagcctg 780
gccagaattt ccacatgttc acaaaggaag aacttgaaga ggttatcaag gacatttaag 840
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<210> 548
<211> 736
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (719)
<223> n equals a,t,g, or c

<220>

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<221> misc feature
<222> (724)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (727)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (734)
<223> n equals a,t,g, or c

<400> 548
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tgtggcggga aagcggcccc cagaaccgac cacaccgtgg caagaggacc cagaacccga 240
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attctgacct cttctcagag cacctaatta aaggggctga aagtctgaaa aaaaaaaaaa 660
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcgnc 720
ctanttntaa atcncg                                                 736

<210> 549
<211> 2231
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2224)
<223> n equals a,t,g, or c

<400> 549
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gaycctagaa agraaaaata atttttcatt ttagatcttg attgaattta agatgtattt 120
atatgcctac aaaaggtctg tcttgtaact gttgtataaa ataaacctaa tctatggttt 180
cattttaat ctaaaaaaag ttgtgcctta acaatagggc attgtatgtt aataagggaa 240
aacaaccttt ttagtagatg ggggaaaata ggaacttttt gccattaaaa cttaagttct 300
tttgatgttt ttaatattat agttggggga gattcattaa aattaaattg aaataaaatt 360
attttgcat aacctagcat ttacaactaa agtatgtttt ttataagaac tggcatcttg 420
atgtatatag gtctgaaata atatttcatc ttttgatttt taattttaat aatattagac 480
caggatagat cacagtttta caaatcttag ttttaaataa attatttcag tgtgctgtta 540
gtcctctaca gtcattttgg tttaaaaagt gactatttat ttatggtagc atatcaataa 600
tttattaatg ttaaaaaata ctgtgtatga cattacmaac cagaacagtt cctgggggag 660
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<210>  550
<211>  1816
<212>  DNA
<213>  Homo sapiens

<400>  550
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<210> 551
<211> 2610
<212> DNA
<213> Homo sapiens
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469

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<211> 4021
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<400> 552
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<210> 553
<211> 1780
<212> DNA
<213> Homo sapiens

<400> 553
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<210> 554
<211> 3713
<212> DNA
<213> Homo sapiens

<220>
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<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3006)
<223> n equals a,t,g, or c

<400> 554
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tgtaggcccg gaagattgtg tggtcccgtt cctgacccgg cctaaggtcc ctgtcttgca 180
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<210> 555
<211> 1997
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1951)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1980)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1992)
<223> n equals a,t,g, or c

<400> 555
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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (879)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (906)
<223> n equals a,t,g, or c

<400> 556
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cccctn                                                             906


<210> 557
<211> 3484
<212> DNA
<213> Homo sapiens

<400> 557
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tacataaata tttgttttag gacccttaga ttttatctga atacacagat taggctttaa 180
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cactgtatgg cagcattttt tggtatggtt agcatggcac atggcgaaac ataaagcatt 300
ttactgtaca ggtaaggaat gtgccatgtt gttttaccta tctctctttc tctctcactc 360
ccatgcacac atcctgtgtg tattcagaga ccttcagaaa cattcatatt cattttcatg 420
agtcagcaaa agccctacgc ttgattccaa cagaatattt cctttacata ctttcttctc 480
ttaatttta caaaatttgt atggtaggtg taaagaaaa tcatagtaac tgtaccatat 540
tattaaccccc taaatcaaac ttttttgkc ttgtgkatct tgattttct gtgtgcttta 600
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cccctggaga accgactgtg cttgcttacg tttggttcat gacttaaaaa tcgagtacag 720
gagttattcc tgatgaagct aaagctttgt ctctgttggc accagctaat gcagtggcag 780
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gttacatctg gaaatgagca tttgaaatag ataatccttt aagccttgtg gcaaaatttt 2400
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aataatttat tccacatcta catcagtgaa agctatctac ctatcctgag tctatcttaa 2640
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aagt                                                          3484
```

<210> 558
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (788)
<223> n equals a,t,g, or c

<400> 558
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gaaagacttg gccagcgagg ctccctacca ctccgaaaaa agagagtggg ggtcagcagg 180
gtctgctctg ctctggggat taaggggctg actagaagga tttgagtctt tccttctgtc 240
cactgccaca gggttcttgg agtaactgca ggtttaaact gcaggtctaa cttccagagg 300
ctggggttcc ctgccccca gcttagagac attcctgarg tggctgaaga gcaggaagga 360
gaatgaatgc acttccagac tggcccagag tctcagcccc tcctcttcct tgtttcccgc 420
tggtccctct gggctgtacg gcccggatgg aggcctgagg aaaatgaggg ggctttggtt 480
ctccggaatt ccggccgggg ccacaccctc ctgtcttcag atggttcatg tacccatccc 540
cccttcccgt cctctccttt gtctcctctg tcaccgggac tcccagcaga gatttttttt 600
tgtactggct gtgtaacagg acaccgcatg cagccctcag gagggctct gtgcttctra 660
```

```
tgaaaaaggm aggcattgac ctccctctga ggcagtttcc aggcccaccg tggtgcacgc 720
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ggccctcncg                                                         790
```

<210> 559
<211> 558
<212> DNA
<213> Homo sapiens

<400> 559
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atgaaaaagc agagcgactc ggttaaggga aagcgccgag atgacgggct ttctgctgcc 180
gcccgcaagc agagggactc ggagatcatg cagcagaagc agaaaaaggc aaacgagaag 240
aaggaggaac ccaagtagct ttgtggcttc gtgtccaacc ctcttgccct tcgcctgtgt 300
gcctggagcc agtcccacca cgctcgcgtt tcctcctgta gtgctcacag gtcccagcac 360
cgatggcatt ccctttgccc tgagtctgca gcgggtccct tttgtgcttc cttcccctca 420
ggtagcctct ctcccctgg gccactcccg ggggtgaggg ggttacccct tcccagtgtt 480
ttttattcct gtggggctca ccccaaagta ttaaaagtag ctttgtaatt ccaaaaaaaa 540
aaaaaaaagg gsggcccc                                                558
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<210> 560
<211> 534
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<400> 560
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caaggaggac gagggccggt tgccgggcgc gggcgagaaa gcctcccagt gcaacgtcag 120
cttaaagaag cagaggagcc gcagcatcct tagctccttc ttctgctgct tccgtgatta 180
caatgtggag gcccctccac ccagcagccc cagtgtgctt ccgccactgg tggaggagaa 240
tggtgggctt cagaagccac cagctaagta ccttcttcca gaggtgacgg tgcttgacta 300
tggaaagaaa tgtgtggtca ttgatttaga tgaaacattg gtgcacagtt cgtttaagcc 360
tattagtaat gctgatttta ttgttccggt tgaaatcgat ggaactatac atcaggtgta 420
tgtgctgaag cggccacatg tggacgagtt cctccagagg atggggcagc ttttgaatgt 480
gtgcwcttta ctgccgcwtg gccaagtatg cagacctgtg gctgacctcc taga      534
```

<210> 561
<211> 3043
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (3038)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3039)
<223> n equals a,t,g, or c

<400> 561
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tggaagtcgg gccctgggct gcccgatcgc cagcccgagg acttaccatc cacaatgcac 120
cacggaagag gccgttctat gaaaaactga cacagactgt attcctgcat tcaaatgtca 180
gccgtttgta aaatgctgta tcctaggaat aagctgccct ggtaaccagt ctctagctag 240
tgcctcttgc cctctcctca cctcctttc tctcagtgac tctggaacct gaatgcagct 300
tacaagacaa gcctgacttt tttctctgat taccttggcc tcctcttgga accagtgctg 360
aaaggttttg aatcctttac ccaacaatgc aaaaatagag ccaatggtta aacttggct 420
agaaatatca agagttgaat ccatagtgtg gggcccatga ctctagctgg gcaccttgga 480
cctccagctg gccaatagaa gagacaggag acaggaagcc ttcccatttt ttcaaagtct 540
gtttaattgc ctattacttc tctcaaagag aacctgaagt cagaacacat gagcagggtg 600
agaggtgagg caaggttcat cctgaatggg agaggaagtc gaaccactgc tgtgtgtctt 660
gtcaggatgc tcacttgttc ctactgagat gctggatatt gattttgtaa cagcacctgg 720
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aagcacattc tgagcacatt tgagacctct gtgttagagg ggagactgca caaactatcc 960
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gccgcttcca taaatcaaag catgactaat aggggtctc tgaaatgtaa gggcacaaac 1140
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aataactcaa agttgaagac tctggaagat tttgctttaa cctaactcgc attgatgtat 2040
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aactataatc tttaacaaat tgaaaaatga aatagggtgt tttccctttt tgtgcacacc 2220
tatattacct taagaaattt ccttccatag acagctgcct caaagggaaa tcctctttaa 2280
accgtagttg gcgcagaggt cagtcctagt cggagcttag gagggcggga gacgctcaca 2340
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aaaagaaaat taacttatgt ggactgtaaa tgtttttattt gtaagattct ataaataaag 3000
ctatattctg taaaaaaaaa aaaaaaaaaa aaaaaatnnc tgc            3043
```

<210> 562
<211> 1386
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

<400> 562
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tttctccctc gcgttaggca ggtgacagca gggacatgtc tcgggagatg caggatgtag 180
acctcgctga ggtgaagcct ttggtggaga aaggggagac catcaccggc ctcctgcaag 240
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tacatgtacc cctccatgga tcagctggct gaaatgcttc ctggagtcct tcaacagttt 540
gggctgaaaa gcattattgg catgggaaca ggagcaggcg cctacatcct aactcgattt 600
gctctaaaca accctgagat ggtggagggc cttgtcctta tcaacgtgaa cccttgtgcg 660
gaaggctgga tggactgggc cgcctccaag atctcaggat ggacccaagc tctgccggac 720
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cagggcatgg gatacatgcc tcggctagca tgacccgcct gatgcggtcc cgcacagcct 1140
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sccacctgga matcaccccc mactcgggtg ctgctgggaa cagcgccggg cccaagtcca 1320
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ggcccc                                                          1386
```

<210> 563
<211> 2638

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<212> DNA
<213> Homo sapiens

<400> 563
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ttcagtatct tctagcaatg gttttttctct gttgatctac cgtagtatcc tatttttaag 180
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agtatatata ttcaggactt taaaaaatag cagtacacat ttaacagtag cgaattacac 300
caaaatgatt tactttgaga tttgaataat ttgcatagca gtaaaatgtg ttttgtgtaa 360
catacaaata gaaaaatgac ccagtatctt aattgatact tactggagag tatcagaatt 420
acccagcagc tcttacagaa tgccataaat tctttaagac taaatattga aatcaattat 480
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gcctatggca tgcttaaatc agcattgtca actgatttgt tgttgtatta ttttcacttc 1680
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gtgaattatg ttataaatgc aaagagaaga taaaatatta aaaacatat tttctaaatg 2460
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tgtatatttg ctgactatta cttgatatct ctaatctctt ttcctaacaa atatagcatt 2580
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<210> 564
<211> 691
```

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (569)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (575)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (581)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (619)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (650)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (653)
<223> n equals a,t,g, or c

<400> 564
ggcagagcgc ccgctccagg tcccgaggag cgcaggtgag gcggcacccc actcccggcg 60
gcccccgggc ctccttccgc acgcacccg agctgcctcc gcacagttgg aggagcgtag 120
gagggacccc cacccaggga tgacactcca ggaaggggac tgcagaggaa gccagactgt 180
gtccctgaca atgggaacag ccgacagtga tgagatggcc ccggaggccc cacagcacac 240
ccacatcgat gtgcacatcc accaggagty tgccctggcc aagctcctgc tcacctgctg 300
ctctgcgctg cggccccggg ccacccaggc magggrcagc agccggctgc tggwggcctc 360
rtgggtgatg cagatcgtgc tggggatctt gagtgcagtc ctaggaggat ttttctacat 420
ccgcgactac accctcctcg tcacctcggg agctgcatct ggacaggggc tgtggctgtg 480
ctgctggagc tgctgccttc atttaygaga aacggggtgg tacatactgg gccctgctga 540
ggactctgct aacgctggca agctttctnc acagncatcg ntggcctcaa actttgggaa 600
tgaagaattc cgatatggnt tactcttaat tacaacaagt ggctggccgn atnttcaggt 660
tcgagtggat tggaacactt caagccccca a   691

<210> 565
<211> 1967
<212> DNA
<213> Homo sapiens

```
<400> 565
gtagggatcc attggagcat taaggagcac atatttttat taacttcttt tgagctttca 60
atgttgatgt aattttttgtt ctctgtgtaa tttaggtaaa ctgcagtgtt taacataata 120
atgtttttaaa gacttagttg tcagtattaa ataatcctgg cattataggg aaaaaacctc 180
ctagaagtta gattatttgc tactgtgaga atattgtcac cactggaagt tactttagtt 240
catttaattt taattttata ttttgtgaat attttaagaa ctgtagagct gctttcaata 300
tctagaaatt tttaattgag tgtaaacaca cctaacttta agaaaaagaa ccgcttgtat 360
gattttcaaa agaacattta gaattctata gagtcaaaac tatagcgtaa tgctgtgttt 420
attaagccag ggattgtggg acttccccca ggcaactaaa cctgcaggat gaaaatgcta 480
tattttcttt catgcactgt cgatattact cagatttggg gaaatgacat ttttatacta 540
aaacaaacac caaaatattt tagaataaat tcttagaaag ttttgagagg aatttttaga 600
gaggacattt cctccttcct gatttggata ttccctcaaa tccctcctct tactccatgc 660
tgaaggagaa gtactctcag atgcattatg ttaatggaga gaaaaagcac agtattgtag 720
agacaccaat attagctaat gtattttgga gtgtttttcca ttttacagtt tatattccag 780
cactcaaaac tcagggtcaa gtttttaacaa aagaggtatg tagtcacagt aaatactaag 840
atggcatttc tatctcagag ggccaaagtg aatcacacca gtttctgaag gtcctaaaaa 900
tagctcagat gtcctaatga acatgcacct acatttaata ggagtacaat aaaactgttg 960
tcagcttttg ttttacagag aacgctagat attaagaatt ttgaaatgga tcatttctac 1020
ttgctgtgca ttttaaccaa taatctgatg aatatagaaa aaaatgatcc aaaatatgga 1080
tatgattgga tgtatgtaac acatacatgg agtatggagg aaattttctg aaaaatacat 1140
ttagattagt ttagtttgaa ggagaggtgg gctgatggct gagttgtatg ttactaactt 1200
ggccctgact ggttgtgcaa ccattgcttc atttctttgc aaaatgtagt taagatatac 1260
tttattctaa tgaaggcctt ttaaatttgt ccactgcatt cttggtattt cactacttca 1320
agtcagtcag aacttcgtag accgacctga agtttctttt tgaatacttg tttctttagc 1380
actttgaaga tagaaaaacc actttttaag tactaagtca tcatttgcct tgaaagtttc 1440
ctctgcattg ggtttgaagt agtttagtta tgtcttttc tctgtatgta agtagtataa 1500
tttgttactt tcaaataccc gtactttgaa tgtaggtttt tttgttgttg ttatctataa 1560
aaattgaggg aaatggttat gcaaaaaaat attttgcttt ggaccatatt tcttaagcat 1620
aaaaaaaatg ctcagttttg cttgcattcc ttgagaatgt atttatctga agatcaaaac 1680
aaacaatcca gatgtataag tactaggcag aagccaattt taaaatttcc ttgaataatc 1740
catgaaagga ataattcaaa tacagataaa cagagttggc agtatattat agtgataatt 1800
ttgtattttc acaaaaaaaa agttaaactc ttctttttctt tttattataa tgaccagctt 1860
ttggtatttc attgttacca agttctattt ttagaataaa attgttctcc ttctaaaaaa 1920
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggg gggggag              1967
```

```
<210> 566
<211> 1334
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1253)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1307)
<223> n equals a,t,g, or c
```

<220>
<221> misc feature
<222> (1309)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1312)
<223> n equals a,t,g, or c

<400> 566
gaattcggca cgagggagcc tcctggggtg tccacgtgag cgcgcgtgag tccgcccccc 60
cagtcacgtg accgctgact cggggcgttc tccactatcg cttacctacc tccctctgca 120
ggaacccggc gatatggctg ccgctgtgcc ccgcgccgca tttctctccc cgctgcttcc 180
ccttctcctg ggcttcctgc tcctctccgc tccgcatggc ggcagcggcc tgcacaccaa 240
gggcgccctt ccctggata cggtcacttt ctacaaggtc attcccaaaa gcaagttcgt 300
cttggtgaag ttcgacaccc agtaccccta cggtgagaag caggatgagt tcaagcgtct 360
tgctgaaaac tcggcttcca gcgatgatct cttggtggca gaggtgggga tctcagatta 420
tggtgacaag ctgaacatgg agctgagtga gaaatacaag ctggacaaag agagctaccc 480
agtcttctac ctcttccggg atggggactt tgagaaccca gtcccataca ctggggcagt 540
taaggttgga gccatccagc gctggctgaa ggggcaaggg gtctacctag gtatgcctgg 600
ttgcctgcct gtatacgacg ccctggccgg ggagttcatc agggcctctg gtgtggaggc 660
ccgccaggcc ctcttgaagc aggggcaaga taacctctca agtgtgaagg agactcagaa 720
gaagtgggcc gagcaatacc tgaagatcat ggggaagatc ttagaccaag gggaggactt 780
cccagcatca gagatgacac ggatcgccag gctgattgag aagaacaaga tgagtgacgg 840
gaagaaggag gagctccaga gagcttaaa catcctgact gccttccaga agaaggggc 900
cgagaaagag gagctgtaaa aaggctgtct gtgattttcc agggtttggt ggggtaggg 960
aggggagagt taacctgctg gctgtgagtc ccttgtggaa tataaggggg tagtgggaaa 1020
agtggtacta acccacgatt ctgagccctg agtatgcctg gacattgatg ctaacatgac 1080
catgcttggg atgtctctag ctggtctggg gatagctgga gcacttactc aggtggctgg 1140
tgaaatgaca cctcagaagg aatgagtgct atagagagga gagaggagtg tactgcccag 1200
gtctttgaca gatgtaattc tcattcaatt aaagtttcag tgttttggtt aantaaaaaa 1260
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg cggccgntnt anaggatccc 1320
tcgaggggcc caag   1334

<210> 567
<211> 1610
<212> DNA
<213> Homo sapiens

<400> 567
gccggccagt gcgggaaccg tttccgaagg accaccggga acagacggat cggcagggcg 60
rggcggaacg gcgtttgcaa tggctgctac tgtgaacttg gaacttgatc ccattttttt 120
gaaagcacta ggtttcttgc attcaaagag taaagattct gctgaaaagc taaaagcact 180
gcttgatgaa tctttggctc ggggcattga ttccagttac cgtccatctc aaaaggatgt 240
ggagccaccc aaaatttcaa gcacaaaaaa catttccatt aagcaagagc ccaaaatatc 300
atccagtctt ccttctggta ataataatgg caaggtcctc acaactgaaa aggtaaagaa 360
ggaagctgaa aagagacctg ctgataaaat gaaatcagac atcactgaag gagttgatat 420
tccaaagaaa cctagattgg agaaaccaga aacacagtca tctcccatta ctgtccaaag 480
tagcaaggat ttacctatgg ctgacctttc cagttttgag gagaccagtg ctgatgattt 540
tgccatggag atgggattgg cctgcgttgt ttgtaggcaa atgatggtgg catctggcaa 600

```
tcaattagta gaatgtcagg agtgccataa tctctaccac cgagattgtc ataaacccca  660
ggtgacagac aaggaagcga atgaccctcg cctggtgtgg tattgtgccc gatgtaccag  720
acaaatgaaa agaatggctc aaaaaactca gaaaccaccg cagaaaccag cccctgcagt  780
tgtttctgta actccagctg tcaaagatcc attggttaag aaaccagaaa ctaaactgaa  840
acaagagaca acttttctag cgtttaagag aacagaagtc aagacatcca cagttatttc  900
aggaaattct tctagtgcca gcgtttcctc gtcagtaact agtggcttaa ctggatgggc  960
agcttttgca gccaaaactt cctctgctgg tccttcaaca gcaaaattga gttcaacaac 1020
acaaaacaat actgggaaac ctgctacttc gtcagctaac cagaaacctg tgggtttgac 1080
tggtctggca acatcatcca aaggtggaat aggttccaaa ataggttcca ataacagcac 1140
tacgcccact gtacctttaa aaccacctcc acctctaacc ttgggtaaaa ctggccttag 1200
tcgctcagtt agttgtgaca atgtcagcaa agtaggtctt cctagtccaa gtagtttagt 1260
tccaggaagc agcagccaac taagtgggaa tggaaatagt ggaacatcag gacctagtgg 1320
aagtactacc agcaaaacta cttcagaatc cagcagctct ccctcagcat cccttaaagg 1380
cccaacttca caagaatcac agctcaatgc tatgaagcga ttacagatgg tcaagaagaa 1440
agctgcccaa aagaaactca agaagtaatg tggccaagta ggttttgta tcatattagc 1500
ctaaagatga aaggcttatt attatgatat aatctgtaat acactgtaat ttaataaaag 1560
tcttcataat caaaaaaaaa aaaaaaaaa agaaaaaaa aaaaaaaaa             1610
```

```
<210> 568
<211> 1412
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1018)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1037)
<223> n equals a,t,g, or c

<400> 568
aattcggcac gagagaaaac attgcaaaag ctaaacgact aaaaaaggat tgaaggactg   60
aacaggcttt gcaaccagag gaaaatcatt tggaaaatta cacagctttg gaagaatcca  120
ctaaagtttc ttctttggat ttcttgacag tatgatttag taaatgaaat ttgaccaaat  180
ggaagaatca tgttagttct gacctcaata ctatagtaac ttttaggcgt gggtgtagaa  240
gtttataggt ttctattgac agttattgta aattagcatt tactgtggta caaattcttt  300
ataactgact tagtcatttg ccgcttagca gtttatatac tgaaatgaaa acatcttgtg  360
gggaaaagtg actttagatt atgaactcaa ttcaaatgaa ctctatttaa aatggggtcc  420
tattttggac aaaggaaatt aagaatgtaa aagtcagaac agtcttgagg taaaaagtgt  480
gctttggctt aaaagggata cagtatatta attacatctt ttattattat tgtttatttc  540
ttagaatcat ttctggcttt ctcaaaacaa aataatatta atgagtactt ctatttgctg  600
cattttcctt attacagcct ttgagacagc tggtaattat aagtcatttt ccattttta  660
aaacataatt ttataaagaa ttctcttatc tcgactatgt agaataccac ctactggaca  720
gaacaatttt tgtactcaca aacactgcca ttttcttaga gatggcttga gaggagtaac  780
actatggttt aaagcttgca gtaaaaatgc caaacactgt agtaccttgg aacccagttt  840
attcttgtgc taagcagaac tgtaaaatag ttaaaatgtc ttatcaagta attcgccgat  900
tacaaagaca ccatttgttt tttatttcat tctttgkttt aactcatgtg gtagtgatat  960
ttaatacttt ctgatcaaac aggttcaaag taaaacgtta aatttcacat ttcttttnaa 1020
```

485

```
agaactctta aagtgtnaca gttacgccat acttcataag tggtaaagaa aggtataaaa 1080
tttggaaaca ttttgttggg catagtagtg attgggtgaa aaggataaat tatatcaaaa 1140
tgagaatgtg ctgtaattgg aagtagggag ctaaaggatg tttctttcag tttagtagaa 1200
ctggaacgtt ttactattaa acatggcttt tataaatgca tggtccaata attttattca 1260
ctgttagtat ttaattcact gtcagcttat taatgttttc tgtacccatt aatgaatttt 1320
aaattacaaa aaattgtcta gcagctacag tttaaaaatg aaactagaca ttaaaataaa 1380
tttgataatt ttttataaaa aaaaaaaaaa ag                               1412
```

<210> 569
<211> 1125
<212> DNA
<213> Homo sapiens

<400> 569
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gacaacgggg gcgaagcgca ggcgcaagga gcaagcgcag attgtgggcg gctgtgtcag 60
ctgacccaag gggccttcga ggtgccttag gccgcttgcc ttgctctcag aatcgctgcc 120
gccatggcta gtcagtctca ggggattcag cagctgctgc aggccgagaa gcgggcagcc 180
gagaaggtgt ccgaggcccg caaaagaaag aaccggaggc tgaagcaggc caaagaagaa 240
gctcaggctg aaattgaaca gtaccgcctg cagagggaga agaattcaa ggccaaggaa 300
gctgcggcat tgggatcccg tggcagttgc agcactgaag tggagaagga gacccaggag 360
aagatgacca tcctccagac atacttccgg cagaacaggg atgaagtctt ggacaacctc 420
ttggcttttg tctgtgacat tcggccagaa atccatgaaa actaccgcat aaatggatag 480
aagagagaag cacctgtgct gtggagtggc attttagatg ccctcacgaa tatgaagctt 540
agcacagctc tagttacatt cttatgatat ggcattaaat tatttccata tattatataa 600
taggtccttc cactttttgg agagtagcaa atctagcttt tttgtacaga cttagaaatt 660
atctaaagat ttcatctttt tacctcatat ttcttaggaa tttaatggtt atatgttgtc 720
ttttttcct atgtcttttg gctcaagcaa catgtatatc agtgttgact ttttctttct 780
tagatctagt ttaaaaaaaa aaaaaccac ataacaattc tttgaagaaa ggaagggatt 840
aaataatttt tttccctaac actttcttga aggtcagggg ctttatctat gaaaaagtag 900
taaatagttc tttgtaacct gtgtgaagca gcagccagcc ttaaagtagt ccattcttgc 960
taatggttag aacagtgaat actagtggaa ttgtttgggc tgcttttagt ttctcttaat 1020
caaaattact agatgataga attcaagaac ttgttacatg tattacttgg tgtatcgata 1080
atcatttaaa agtaaagact ctgtcatgca ttttccccca aaaaa              1125
```

<210> 570
<211> 1916
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1899)
<223> n equals a,t,g, or c

<400> 570
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ggggagggtc agttggaggc aggcgctcgc tgaggcaaaa ggaggcgctc ggcccgcggc 60
ctgacaggga cttagcccgc agagatcgac cccgcgcgcg tgaccccaca cccacccact 120
catccatcta tccactccct gcgccgcctc ctcccaccct gagcagagcc gccgaggatg 180
ataaacaccc aggacagtag tattttgcct ttgagtaact gtccccagct ccagtgctgc 240
aggcacattg ttccagggcc tctgtggtgc tcctgatgcc cctcacccac tgtcgaagat 300
ccccggtggg cgaggggcg gcagggatcc ttctctctca gctctaatat ataaggacga 360
```

```
gaagctcact gtgacccagg acctccctgt gaatgatgga aaacctcaca tcgtccactt 420
ccagtatgag gtcaccgagg tgaaggtctc ttcttgggat gcagtcctgt ccagccagag 480
cctgtttgta gaaatcccag atggattatt agctgatggg agcaaagaag gattgttagc 540
actgctagag tttgctgaag agaagatgaa agtgaactat gtcttcatct gcttcaggaa 600
gggccgagaa gacagagctc cactcctgaa gaccttcagc ttcttgggct ttgagattgt 660
acgtccaggc catccctgtg tcccctctcg gccagatgtg atgttcatgg tttatcccct 720
ggaccagaac ttgtccgatg aggactaata gtcatagagg atgctttacc caagagccac 780
agtgggggaa gaggggaagt taggcagccc tgggacagac gagagggctc ctcgctgtct 840
agggaaggac actgaggggc tcagggtgag ggttgcctat tgtgttctcg gagttgactc 900
gttgaaattg ttttccataa agaacagtat aaacatatta ttcacatgta atcaccaata 960
gtaaatgaag atgtttatga actggcatta gaagctttct aaactgcgct gtgtgatgtg 1020
ttctatctag cctaggggag gacattgcct agaggggggag ggactgtctg ggttcagggg 1080
catggcctgg agggctggtg ggcagcactg tcaggctcag gtttccctgc tgttggcttt 1140
ctgttttggt tattaagact tgtgtatttt ctttctttgc ttcctgtcac cccaggggct 1200
cctgagtata ggctttttcag tccctgggca gtgtccttga gttgtttttt gacactctta 1260
cctgggcttc tctgtgtgca tttgcgtctg gcctggagta agcaggtccg accctccctt 1320
ctttacagct tagtgttatt ctggcatttg gttaagctgg cttaatctgt ttaatgttat 1380
cagtacattt taaataggggg cattgaaatt tactcccacc accagggctt ttttggggga 1440
tgcctggccc tttaaaacac tagccaaact ctaattaatt ctcaaatcac tgccaggagt 1500
tcttgctcct ggctgcaggc ccaggcccca aggtctcctt cttggggtca caaacagcag 1560
taaggaagag gaatatatag caactcaggg cctgggaatt gtggggcaat ccgttcttag 1620
ggactggata cttctggctg gctgagtata gtactagctg cctcccacc aggttccgag 1680
tagtgtctga gactctgctc tgcagggcct agggtagcgc tgggagtgta gaagtggcct 1740
gcccttaact gttttcacta aacagctttt tctaagggga gagcaagggg gagagatcta 1800
gattgggtga gggggacggg gatgtcaggg aggcaagtgt gttgtgttac tgtgtcaata 1860
aactgattta aagttraaaa aaaaaaaaa aaaaactcng rggggcgct atagtg        1916
```

<210> 571
<211> 1253
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1205)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1207)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1212)
<223> n equals a,t,g, or c

<400> 571
```
cgcgtccgcc cacgcgtccg cccacgcgtc cgcccacgcg tccgctcagg aggcgggagg 60
aggacccgga atgaagacga aggcgctcac cattaaatcg tacggctcgc actgcccct 120
gcccgcagtc cagcgtcttc aaccgtttct gcggcagctc tggaggccgc ggctttggct 180
```

```
caggaaagc catgctccca ggactccttc cttgcagcct taaatcggtc tgtacggaaa 240
attccgcgcc ttagaaaccc acgcttgggt gtaaccttat tattgttctt cctgacctac 300
ttcctgttta tcacttccgg gttcatcatt ttggcatttc ggtgatcggg ttggaactat 360
tgaagcccgc tttcaggttc ttttccccat tttccctttg aaaggaagac ttctggcttc 420
tcctaaatct ccgttctctg ggtaagggga gtccaagcct ctgtcatgag gaacggaaat 480
gcgagggcct cgggtgttac tctaaaatcc gccctcagct tgcacgccgg aagctgcgat 540
tcctgcagcg gaagaggcgt gatctggcct tcgactcgct atgtccacta acaatatgtc 600
ggacccacgg aggccgaaca aagtgctgag gtacaagccc ccgccgagcg aatgtaaccc 660
ggccttggac gacccgacgc cggactacat gaacctgctg ggcatgatct tcagcatgtg 720
cggcctcatg cttaagctga agtggtgtgc ttgggtcgct gtctactgct ccttcatcag 780
ctttgccaac tctcggagct cggaggacac gaagcaaatg atgagtagct tcatgctgtc 840
catctctgcc gtggtgatgt cctatctgca gaatcctcag cccatgacgc ccccatggtg 900
ataccagcct agaagggtca cattttggac cctgtctatc cactaggcct gggctttggc 960
tgctaaacct gctgccttca gctgccatcc tggacttccc tgaatgaggc cgtctcggtg 1020
cccccagctg gatagaggga acctggccct ttcctaggga acaccctagg cttaccctc 1080
ctgcctcct tcccctgcct gctgctgggg gagatgctgt ccatgtttct aggggtattc 1140
atttgctttc tcgttgaaac ctgttgttaa taaagtttt cactctgaaa aaaaaaaaa 1200
aaaanrnaaa anctygrggg ggggcccgga acccaattcs ccggatagtg agt       1253
```

<210> 572
<211> 2013
<212> DNA
<213> Homo sapiens

<400> 572
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cctgggagca cctctttgct tttcacacca aaccaaaact gscgaragcc ctcctagcca 60
ccagtgatcc ccaagcatcc agtacagaac caggcatcga gctagctccc tgcacggccg 120
caccctccca gagaactcct tgaggagaac aagtgccctt ggggacagcc ggcakgcgcc 180
cctgtacgtc tgctcatgca ccaggcagca cagccgcagt tcctcagttg ttgtttgac 240
atatttcagt ttccacctca ygtttttaga gcagaaccac actgtctccc tggagggct 300
cgagggcatg accgggggact gaccattctg tgaaagkagc agaatgtgag gagcacgcgt 360
gagcttatgt accgtgaaga tgatcagagg atatcttatt ttaagagtaa aaacccacat 420
aattttattt ctgcttgata gtcatggtag tctgtcatac ccacctctgg gactctgcgt 480
ggctgtttgg ctgtcacttg tagcaataac gacattagtt ctagtcagtg ctgttttaca 540
ttttttcttt gatgggttta gtcttgccct ggagtgccga tgatgattct ccctccagag 600
ccacgcttgg gaacatgaag caagtctggc gtgtgggctg cgtgccggcc ttagtgggac 660
ccgtgggggtt ggagcatgcc tttaggggca gtgtctgggc cgaagcacgt cccaccacac 720
agtgccagag ccagagaagg ggccccacca ccaaggccaa gcttgaccag gtcagcattg 780
ccatggccca gtgtgccccg tggcctctga agatccctct gtgcagggtc tgcagggatc 840
tggattgcaa gggcccaagt ctgcaggtct ggaagcatct tcctataaga gcactttcgc 900
cttctgggtc aggactccaa ggtgcagcgg gcttcacagc cctacaattg ggttctcagc 960
taagccccag agttctggta gaaccatccc ggggcgggtg gagggtggga tttaagggag 1020
acgggaacac atggggcagg tcctggaact tggtggcctg aggactgagg ccattgccct 1080
ggtggaaagg cctggcctgg ttcctgtggc ttgggacctg aataggcagg tgctgctggc 1140
tccgtagaaa ccctttttccc atcttttgct ctttgccaaa cctaccttgc tttgggagct 1200
gcctgcacca ccccagagaa ggccccacct tcttcatccc tcagacccga ggaggcctcc 1260
cagtaaggag tttcccaaga ggggactcac aggaaacaag tcttagtgct tgggagggag 1320
gccccgctgc gtgctcagac tcacagccaa cctggaaggt agacgagata gcgccaccca 1380
cgcccctcca cacccagac tccgagtaaa gcgggcggta gggccggagt cacctccct 1440
atggcagtgg ccgccgctgt actccatcct cccgtcagga agatcagctg taaataaacg 1500
ctgggctccc cagagcacct gtccgcccac tgcccttgct gttctgggat cttcgctgca 1560
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ctttccagga gccccaggcc cggaggagcg aagcccgcag agcaaaggtg gaaacacgtg 1740
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taacgagagg agtgacgtat tttcatcacc gtttttaatt tgttttctta cgggtttacg 1860
attttgaatt tttcttattt ggttgaaaga attttgattc tatcagcctg agtgagttca 1920
gcctgtaaaa aggatgttaa gctgtgggta aaatatgcaa acgaaagaa atatattgta 1980
caaattctat ataataagaa aaaaaaaaa aaa                              2013
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<210> 573
<211> 669
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (631)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (638)
<223> n equals a,t,g, or c

<400> 573
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cttcctctcc ctttttttcct tcttccttcc cctcctcgcc gccaccgccc aggaccgccg 180
gccgggggac gagctcggag cagcagccag agtttattaa ccacttaacc tctcagaact 240
gaacaaagac aacattgttc ctggaacgcc ctctttttaa aaaagaaagc ataaccccta 300
ctgtagaact aaatgcactg tgcatgaaac ttggaaaaaa accaatgtat aagcctgttg 360
acccttactc tcggatgcak tcmacctata actacaacat gagaggaggt gcttatcccc 420
cgaggtactt ttacccattt ccagntccac ctttacttta tcaagtggaa ctttctgtgg 480
gaggacagca atttaatggc aaaggaaaga caagacaggc tgcgaaacac gatgctgctg 540
ccaaagcggt tgaggatcct gcagaatgag cccctggcag aagagggctg aggtgaaagg 600
aagagaatcc gaagaagaaa actcaataaa nctgaaanaa agcaagggt tgagatgcct 660
taaacggga                                                      669
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<210> 574
<211> 2432
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)

<400> 574
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ggtctgtagt ctgagcgcta cccggttgct gctgcccaag gaccgcggag tcggacgcag 180
gcagaccatg tggaccctgg tgagctgggt ggccttaaca gcagggctgg tggctggaac 240
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ctacagctgc tgccgtcccc ttctggacaa atggcccaca acactgagca ggcatctggg 360
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gtgctgtgtt atggtcgatg gctcctgggg gtgctgcccc atgccccagg cttcctgctg 660
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gaagactctg cagccctcgg gaccccactc ggagggtgcc ctctgctcag gcctccctag 2040
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aagctgccat cccctccccg tttcagtgga ccctgtggcc aggtgctttt ccctatccac 2220
agggggtgttt gtgtgtgtgc gcgtgtgcgt ttcaataaag tttgtacact ttcaaaaaaa 2280

490

```
aaaaaaaaaa aaagggsggc cgctctaaaa gatccaaggg gccaanctta cccttgcatg 2340
ccaactctaa ctctctccca ataattnatt cttatataac taaggcactg gccgtctttt 2400
aaaacttctg aatggaaatt gctacttggg at                               2432
```

<210> 575
<211> 1372
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (71)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1338)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1370)
<223> n equals a,t,g, or c

<400> 575
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caaggaggag aaggagggcg gcgcacggct gggcgctggc ggcggaagcc cgagaagagc 180
ccgagcgcgc aggagctcaa ggagcagggc aatcgtctgt tcgtgggccg aaagtacccg 240
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accaaccggg ccttgtgcta cctgaagatg cagcagcacg agcaggccct ggccgactgc 360
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cagctggaga tggagagcta tgatgaggcc atcgccaatc tgcagcgagc ttacagcctg 480
gccaaggagc agcggctgaa cttcggggac gacatcccca gcgctcttcg aatcgcgaag 540
aagaagcgct ggaacagcat tgaggagcgg cgcatccacc aggagagcga gctgcactcc 600
tacctctcca ggctcattgc cgcggagcgt gagagggagc tggaagagtg ccagcgaaac 660
cacgagggtg atgaggacga cagccacgtc cgggcccagc aggcctgcat tgaggccaag 720
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gtgggtcatt ttgacccccgt gacccggagc cccctgaccc aggaacagct catccccaac 960
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tgggctggaa aagcaggtga gggtgggctg ggctgaggcc attgccgcca ctatctgtgt 1260
```

```
aataaaatcc gtgagcacga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1320
ttggggggggg ccccntancc aattggccct aaaggggggg tttaaaaaan aa         1372
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<210> 576
<211> 2020
<212> DNA
<213> Homo sapiens

<400> 576
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ctagcgacca cggccagacg tcctcgctgt ggtggaaatg ctcccaagag ggcggcggca 300
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ccctctgtgg accccagatg cttgtcttcc tgagagtgat tggaggtctc cttgccttgg 480
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cccttcatgc caaccgtgct gtcacttaca tctataactg ggcctacggc tttgggctggg 600
cagccacgat tatcctgaty ggctgtgcct cttcttctg ctgcctcccc aactacgaag 660
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tgaaaaccaa ttcattttaa atatcagatt attattttgt aagttgtgga aaaagctaat 1920
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<210> 577
<211> 3161
<212> DNA
<213> Homo sapiens

<400> 577
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ctcatttact gtaatattta tgatacagtg aatatgaaaa tgcactggtc agaaggcact 60
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492

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gtgccctgga caggagatgc tgtgttaaac tgttaatgga tatctatatg agaagctcat 480
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aaaaaaaaaa aaaaaaaaaa aaaactcgag actagttctc t                3161
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<210> 578
<211> 2046
<212> DNA
<213> Homo sapiens

<400> 578
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caccaccacc atgttggctg caaggctggt gtgtctccgg acactacctt ctagggtttt 180
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ccttgatgga attatatatg tgtgttttac ttttgaatgt tacaaaagga aataacttta 1920
aaactattct caagagaaaa tattcaaagc atgaaatatg ttgctttttc cagaatacaa 1980
acagtatact catgagcaaa aaaaaaaaaa gggcggccgc tctagaggat ccctcgaggg 2040
gcccaa                                                        2046
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<210> 579
<211> 302
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

494

```
<222> (8)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (226)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c


<400> 579
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accctcatca cccaccacac ataatgggga gctggagccg tcattctccc ccttgctagg 180
agaagggaag acgcccgaga cgctgcttcc ccagaagtgc tggggncagg gaggcccagg 240
nagatgagag agaaggtccg agtaggtgga tagaagacaa gggggagac cgagccggag 300
tg                                                              302


<210> 580
<211> 3067
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (626)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (1808)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (2945)
<223> n equals a,t,g, or c


<400> 580
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tgcgctcgct ctgcagagcc tcaggctcgc ggccggcctg ggcgccggcg ccctgacag 180
cccccacctc gcaagagcag ccgcggcgcc actatgccga caaaaggatc aaggtggcga 240
agcccgtggt ggagatggat ggtgatgaga tgacccgtat tatctggcag ttcatcaagg 300
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gtgtggctgt caagtgtgcc accatcaccc ctgatgaggc ccgtgtggaa gagttcaagc 480
tgaagaagat gtggaaaagt cccaatggaa ctatccggaa catcctgggg gggactgtct 540
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gggccggcac tttcaaaatg gtcttcaccc caaaagatgg cagtggtgtc aaggagtggg 720
aagtgtacaa cttccccgca ggcggcgtgg gcatgggcat gtacaacacc gacgagtcca 780
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cagaagcggg gatgcraggg gaagtagagg gaccgccagc ctgtcaaggc ttaactggct 3060
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<210> 581
<211> 1574
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

<222> (457)
<223> n equals a,t,g, or c

<400> 581
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caggtggtgg cgcgcgccgt gtgcttggtc ttcgccttga tcgtgttctc ctgcatctat 180
ggtgagggct acagcaatgc ccacgagtct aagcagatgt actgcgtgtt caaccgcaac 240
gaggatgcct gccgctatgg cagtgccatc ggggtgctgg ccttcctggc ctcggccttc 300
ttcttggtgg tcgacgcgta tttcccccag atcagcaacg ccactgaccg caagtacctg 360
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ttcctcacca accagtgggc agtcaccaac ccgaagnacg tgctggtggg ggccgactct 480
gtgagggcag ccatcacctt cagcttcttt tccatcttct cctggggtgt gctgn▬▬▬ 540
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actccggacc ccaacactgc ctacgcctcc tacccaggtg catctn▬gga caactaccaa 660
cagccaccct tcacccagaa cgcggagacc accgagggct acn▬agccgcc ccctgtgtac 720
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agcctgggga gggcaggngt gccccatggc tcccagactc tgtctgtgcc gagtgtatta 1440
taaaatcgtg ggggagatgc ccggcctggg atgctgtttg gagacggaat aaatgttttc 1500
tcattcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaa 1560
aaaaaagggc ggcc 1574

<210> 582
<211> 960
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (924)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (937)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (939)
<223> n equals a,t,g, or c

<400> 582
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tcagtgtccc caggacaaac ggccmggatc acctgctctg gagatgcmtt gccaamaaaa 180
tatrcttatt ggtaccagca gaagtcaggc caggcccctg tgytggtcat ctatgaggac 240
accagacgac cctccgcgat ccctgagaga ttctctgcct ccagctcagg gacaatggcc 300
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gacagcagtt cttattacag ggtgttcggc ggagggacca agctgaccgt cctaggtcag 420
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aaggccacac tggtgtgtct cataagtgac ttctacccgg gagccgtgac agtggcctgg 540
aaggcagata gcagccccgt caaggcggga gtggagacca ccacaccctc caaacaaagc 600
aacaacaagt acgcggccag cagctacctg agcctgacgc ctgagcagtg gaagtcccac 660
araagctaca gctgccaggt cacgcatgaa gggagcaccg tggagaagac agtggcccct 720
acagaatgtt cataggttct caaccctcac cccccaccac gggagactag agctgcagga 780
tcccagggga ggggtctctc ctcccacccc aaggcatcaa gcccttctcc ctgcactcaa 840
taaaccctca ataaatattc tcattgtcaa tcagaaaaaa aaaaaaaaaa aaaaaagggg 900
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<210> 583
<211> 541
<212> DNA
<213> Homo sapiens

<400> 583
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ccgccgccat gcagccctcc agccttctgc cgctcgccct ctgcctgctg gctgcacccg 180
cctccgcgct cgtcaggatc ccgctgcaca agttcacgtc catccgccgg accatgtcgg 240
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cggtgccagc cgtgaccgag gggcccattc ccgaggtgct caagaactac atggacgccc 360
agtamtacgg ggagattggc atcgggacgc ccccccagtg cttcacagtc gtcttcgaca 420
cgggctycty caacctgtgg gtcccctcca tccactgcaa actgctggac atcgcttgct 480
ggatycacca caagtamaac agcgacaagt ccagcaacta cgtgaagaat ggtaactcgt 540
t   541

<210> 584
<211> 2968
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (454)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1437)
<223> n equals a,t,g, or c

498

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<220>
<221> misc feature
<222> (2961)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2964)
<223> n equals a,t,g, or c

<400> 584
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cacccacaat gcacacaact ggaggctcgg ccaggcgccc gccarctggt acaatgacac 120
ctacccctg tctcccccac aaaggacacc ggctgggatt cggtatcgaa tcgcagttat 180
cgcagacctg gacacagagt caagggccca agaggaaaac acctggttca gttacctgaa 240
aaagggctac ctgaccctgt cagacagtgg ggacaaggtg gccgtggaat gggacaaaga 300
ccatggggtc ctggagtccc accʼtggcgga gaagggggaga ggcatggagc tatccgacct 360
gattgttttc aatgggaaac tctactccgt ggatgaccgg acggggggtcg tctaccagat 420
cgaaggcagc aaagccgtgc cctgggtgat tctntccgac ggcgacggca ccgtggagaa 480
aggcttcaag gccgaatggc tggcagtgaa ggacgagcgt ctgtacgtgg cgggcctggg 540
caaggagtgg acgaccacta cgggtgatgt ggtgaacgag aacccggagt gggtgaaggt 600
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<210> 585
<211> 2608
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (84)
<223> n equals a,t,g, or c

<400> 585
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ggagccagag ctgccaggct cggcgctgcg ctctctctgg agctcgctgt gtctggggcc 180
cgcgcctgcg cccccgggac ccgtctcccc cgagggccgg ttggcggcag ctgggacgcg 240
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gatgtggtgc tctcaggggt gaagctcttg caggcacttg ccttagtcc tgggaatggg 360
aaagatcaca gcattctgca ttcaaggaat gatctggaag aagccttcat tcacttcatg 420
gggaagggag cagctgctga gcgcttcttc agtgataagg aaacttttca cgacattgcc 480
caggttgcgt cagagttccc aggagcccag cactatgtag gaggaaatgc agctttaatt 540
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tataaatcaa gacttctgtg tgctcttaaa tatattaaaa acaatttaca tttcaggaat 2520
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<210> 586
<211> 1893
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1184)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1865)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1883)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1887)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1893)
<223> n equals a,t,g, or c

<400> 586
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agtagccgcc tctgccgccg cggagcttcc cgaacctctt cagccgcccg gagccgctcc 120
cggagcccgg ccgtagaggc tgcaatcgca gccgggagcc cgcagcccgc gccccgagcc 180
cgccgccgcc cttcgagggc gccccaggcc gcgccatggt gaaggtgacg ttcaactccg 240
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ctctggccca gaaggaggcc aagaaggacg agcccaagag cggcgaggag gcgctcatca 300
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<210> 587
<211> 2463
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2413)
<223> n equals a,t,g, or c

<400> 587

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tcaaattctg cttggacaat ggagccaagt cggtagtcct tatgagccac ctaggccggc 180
ctgatggtgt gcccatgcct gacaagtact ccttagagcc agttgctgta gaactcaaat 240
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ccttcctggc catcctgggc ggagctaaag ttgcagacaa gatccagctc atcaataata 660
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```
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taa                                                                2463
```

<210> 588
<211> 1945
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1939)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1945)
<223> n equals a,t,g, or c

503

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<400> 588
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atagatgagc tctgagtttc tcagtactcc ctcaagactg gacatcttgg tcttttcty 1860
aggcctgagg gggaaccatt tttggtgtga taaataccct aaatgscttt ttttcttttt 1920
tgaggtgggg ggaagggang aaggn                                       1945
```

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<210> 589
<211> 816
<212> DNA
<213> Homo sapiens
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cctgcggttc gacagcgacg ccgcgattcc gaggatggag ccgcgggagc cgtgggtgga 240
gcaagagggg ccgcagtatt gggagtggac cacagggtac gccaaggcca acgcacagac 300
tgaccgagtg gccctgagga acctgctccg ccgctacaac cagagcgagg ctgggtctca 360
caccctccag ggaatgaatg gctgcgacat ggggcccgac ggacgcctcc tccgcgggta 420
tcaccagcac gcgtacgacg gcaaggatta catctccctg aacgaggacc tgcgctcctg 480
gaccgcggcg gacaccgtgg ctcagatcac ccagcgcttc tatgaggcag aggaatatgc 540
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504

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agaggagttc aggacctacc tggagggcga gtgcctggag ttgctccgca gatacttgga 600
gaatgggaag gagacgctac agcgcgcaga tcctccaaag gcacacgttg cccaccaccc 660
catctctgac catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat 720
cacgctgacc tggcagcggg atggggagga acagacccag gacacagagc ttgtggagac 780
caggcctgca ggggatggaa ccttcagaag tgggct                           816
```

<210> 590
<211> 2307
<212> DNA
<213> Homo sapiens

<400> 590
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gcgccgccac cccgacccccg ctgcgcacgg cctgtccgct gcacaccagc ttgttggcgt 180
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cccgctgcct gccactgccc cctggaggcg cccaagtgcg cgccgggagt cgggctggtc 360
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aaaaaaaaaa aaaaaaaaaa actcgta                                     2307
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505

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<210> 591
<211> 1438
<212> DNA
<213> Homo sapiens

<400> 591
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cggccgggtc ccgatgagcc tcctgttgcc tccgctggcg ctgctgctgc ttctcgcggc 120
gcttgtggcc ccagccacag ccgccactgc ctaccggccg gactggaacc gtctgagcgg 180
cctaacccgc gcccgggtag agacctgcgg gggatgacag ctgaaccgcc taaaggaggt 240
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<210> 592
<211> 1078
<212> DNA
<213> Homo sapiens

<400> 592
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cttccacctg caggcagccc tgggggaaat gctgccctcc ccaccccca gggctctgag 180
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cccggggctg ggaagccaga aggacgatgc tgagccatgg atcgcggaag gcgtcctctg 780
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506

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gcctcaggag ccacccagag cctcacaggc tgagttcttg cctctgtgtc ctgtccttcc 840
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gccgagggcc atgggccgc tcagtcccgt tggggttgtc ctgagttgag cctggggggg 960
ccgtcctgcc cgcctaagag atgcccccag caccgcacac tcgtggttcc caataaactc 1020
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<210> 593
<211> 2492
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2113)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2452)
<223> n equals a,t,g, or c

<400> 593
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tggcttcccg aggcccggct ycccactggg tcctggacct ggcgcaggcc gtayagactc 1320
aggtcctgat gagggcgttg tgggagctgt acctgacagg ccttctgagg aagccaagac 1380
gccaggagag gctcaggcct gggagtcagt agtttcctaa gagggagtgg aggctcgggg 1440
ccactctggg tgcagcatgg caaacgtggg cggtatttca gcagctgggc cttcatcaaa 1500
gagaagacca tgttggccgg gcgcggtggc tcacgcctgc agtcccagca ctttgggagg 1560
ccaaggcgtg tggatcacct gaggtcagga gttcaagacc agcctggcca acacggtgaa 1620
accccgtctc tactaaaaaa tacaaaaatt agccaggtgt ggtggctcac gcttatgtag 1680
tcccagttac tcgggaggct gaggcacgag aatcacttga acctgggagc ggaggttgca 1740
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gtgagccgag atcgcgccac tgcactccag cctgggcaac agagtgagac tctgtctcaa 1800
aaaaaaaaaa aaagtctaat ggaagcagat ggccttttct tccaccgttt gattcattta 1860
acatttctga gcagcaaagc tgcagtcyta ggccccaggg caggagtgag atggtgacaa 1920
tctgtgggtc accccagaag cccttggatg tggactgctc ctccctcacc tcacacgagg 1980
cctgtctgtc tgcctgccag tctgggagag ctaacgtaga aatgggttgt tgggtttgtt 2040
ttyaaactaa ctgtttgcct tccagaaaat attttcagaa cctggaagct tatccatggc 2100
caccgtcgcc aangctccgc gagagctgca gggcccggct gctggcacag gggtgagcgt 2160
gcctgtcccc tgcgttgctc gtctctacac tgacgatgcc cctttccaga gttgacactg 2220
gaccaacttt cactgctttc ctttttagtg ttgtaaatac ttgacatcrc tacactttag 2280
ttgtgaattt tttaaaagag cagtttaaaa tcaggtcatt ctaccagctt ttgatgatta 2340
gctatgaagt catacttttt aaagaaaact tattttacc tgagagatca ataatatata 2400
aaatgtgagt gtgggtttgt atctaataaa gtatgccaac acctgtgttt gngatcagtt 2460
ctcagctgac tggaaattaa catagtgagt gg                          2492
```

<210> 594
<211> 1904
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1878)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1893)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1895)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1903)
<223> n equals a,t,g, or c

<400> 594
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aatgaatgta ccggtccgga attccgggtc gacccacgcg tcgcgtccgc cccgcgagca 60
cagagcctcg cctttgccga tccgccgccc gtccacaccc gccgccagct caccatggat 120
gatgatatcg ccgcgctcgt cgtcgacaac ggctccggca tgtgcaaggc cggcttcgcg 180
ggcgacgatg cccccccgggc cgtcttcccc tccatcgtgg ggcgccccag gcaccagggc 240
gtgatggtgg gcatgggtca gaaggattcc tatgtgggcg acgaggccca gagcaagaga 300
ggcatcctca ccctgaagta ccccatcgag cacggcatcg tcaccaactg ggacgacatg 360
gagaaaatct ggcaccacac cttctacaat gagctgcgtg tggctcccga ggagcacccc 420
gtgctgctga ccgaggcccc cctgaacccc aaggccaacc gcgagaagat gacccagatc 480
atgtttgaga ccttcaacac cccagccatg tacgttgcta tccaggctgt gctatccctg 540
tacgcctctg gccgtaccac tggcatcgtg atggactccg gtgacggggt cacccacact 600
gtgcccatct acgaggggta tgccctcccc catgccatcc tgcgtctgga cctggctggc 660
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508

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cgggacctga ctgactacct catgaagatc ctcaccgagc gcggctacag cttcaccacc 720
acggccgagc gggaaatcgt gcgtgacatt aaggagaagc tgtgctacgt cgccctggac 780
ttcgagcaag agatggccac ggctgcttcc agctcctccc tggagaagag ctacgagctg 840
cctgacggcc aggtcatcac cattggcaat gagcggttcc gctgccctga ggcactcttc 900
cagccttcct tcctgggcat ggagtcctgt ggcatccacg aaactacctt caactccatc 960
atgaagtgtg acgtggacat ccgcaaagac ctgtacgcca acacagtgct gtctggcggc 1020
accaccatgt accctggcat tgccgacagg atgcagaagg agatcactgc cctggcaccc 1080
agcacaatga agatcaagat cattgctcct cctgagcgca agtactccgt gtggatcggc 1140
ggctccatcc tggcctcgct gtccaccttc cagcagatgt ggatcagcaa gcaggagtat 1200
gacgagtccg gcccctccat cgtccaccgc aaatgcttct aggcggacta tgacttagtt 1260
gcgttacacc ctttcttgac aaaacctaac ttgcgcagaa aacaagatga gattggcatg 1320
gctttatttg ttttttttgt tttgttttgg ttttttttt ttttttggct tgactcagga 1380
tttaaaaact ggaacggtga aggtgacagc agtcggttgg agcgagcatc ccccaaagtt 1440
cacaatgtgg ccgaggactt tgattgcaca ttgttgtttt tttaatagtc attccaaata 1500
tgagatgcrt tgttacagga agtcccttgc catcctaaaa gccacccac ttctctctaa 1560
ggagaatggc ccagtcctct cccaagtcca cacaggggag gtgatagcat tgctttcgtg 1620
taaattatgt aatgcaaaat ttttttaatc ttcgccttaa tacttttta ttttgtttta 1680
ttttgaatga tgagccttcg tgcccccct tcccctttt ttgtccccca acttgagatg 1740
tatgaaggct tttggtctcc ctgggagtgg gtggaggcag ccagggctta cctgtacact 1800
gacttgagac cagttgaata aaagtgcaca ccttaaaaaa aaaaaaaaa aaaaaaaaa 1860
aaaaaaaaa aaaaaaanag ggggggcccc ccnanggggc ccna                1904
```

<210> 595
<211> 337
<212> DNA
<213> Homo sapiens

<400> 595
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ctagttctag atcgcgagcg gcgcccttt ttttttttytt tgttaagtcg ttccctctac 60
aaaggacttc ctagtgggtg tgaaaggcag cggtggccac agaggcggcg gagagatggc 120
cttcagcrgt tcccaggctc cctacctgag tccagctgtc cccttttctg ggactattca 180
aggaggtctc caggacggac ttcagatcac tgtcaatggg accgttctca gctccagtgg 240
aaccagtgga aatgacattg ccttccactt caaccctcgg tttgaagatg gagggtacgt 300
ggtgtgcaca gcaggcagaa cggaagctgg ggggccc                          337
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<210> 596
<211> 1288
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1285)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (1287)
<223> n equals a,t,g, or c

<400> 596
gcctccgccc cctcaacctt cgcggggcgc gggccgcagc ttttcggttc acagcgggca 60
gggaaagccg cgggaagggt actccaggcg agaggcggac gcgagtcgtc gtggcaggaa 120
aagtgactag ctcccttcg ttgtcagcca gggacgagaa cacagccacg ctcccacccg 180
gctgccaacg atccctcggc ggcgatgtcg gccgccggtg cccgaggcct gcgggccacc 240
taccaccggc tcctcgataa agtggagctg atgctgcccg agaaattgag gccgttgtac 300
aaccatccag caggtcccag aacagttttty ttctgggctc caattatgaa atgggggttg 360
gtgtgtgctg gattggctga tatggccaga cctgcagaaa aacttagcac agctcaatct 420
gctgttttga tggctacagg gtttatttgg tcaagatact cacttgtaat tattccaaaa 480
aattggagtc tgtttgctgt taatttcttt gtgggggcag caggagcctc tcagcttttt 540
cgtatttgga gatataacca agaactaaaa gctaaagcac acaaataaaa gagttcctga 600
tcacctgaac aatctagatg tggacaaaac cattgggacc tagtttatta tttggttatt 660
gataaagcaa agctaactgt gtgtttagaa ggcactgtaa ctggtagcta gttcttgatt 720
caatagaaaa atgcagcaaa cttttaataa cagtctctct acatgactta aggaacttat 780
ctatggatat tagtaacatt tttctaccat ttgtccgtaa taaaccatac ttgctcgtat 840
ataccccctg cctccttctg ttccagtcag ccaacatatg tacataaaag aacacacaaa 900
ttcaagaagt tggaagatta aattatctgc ttatttagtg taggatggtc aggtagctag 960
ctataagtga aaggaaattt tgctgaagag actgagaaat gggtagtgga atgactatca 1020
agatgacctc aaactatttta aaaacatttt aacttgccat gaagaatctt gatgattttt 1080
gtataaatgt tgtataaaat tcttttacag ctacagattt ttaaatagga tcattgtaar 1140
gattaatgag ataatgtttt aacatagtgc ctgggtccat gataagtgtt aaatttttca 1200
attaccctca gtaactgata atgtagcaag aaaatactct atattcagac agacctgaat 1260
ttgatcccag ctctatacta ccntngna   1288

<210> 597
<211> 1052
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (937)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (943)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (995)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1004)

510

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1009)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1040)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1051)
<223> n equals a,t,g, or c

<400> 597
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gagaagaaca acctaccttg tccttgatga agcagataga atgcttgata tgggctttga 120
accccaaata aggaagattg tggatcaaat aagacctgat aggcaaactc taatgtggag 180
tgcgacttgg ccaaaagaag taagacagct tgctgaagat ttcctgaaag actatattca 240
tataaacatt ggtgcacttg aactgagtgc aaaccacaac attcttcaga ttgtggatgt 300
gtgtcatgac gtagaaaagg atgaaaaact tattcgtcta atggaagaga tcatgagtga 360
gaaggagaat aaaaccattg tttttgtgga aaccaaaaga agatgtgatg agcttaccag 420
aaaaatgagg agagatgggt ggcctgccat gggtatccat ggtgacaaga gtcaacaaga 480
gcgtgactgg gttctaaatg aattcaaaca tggaaaagct cctattctga ttgctacaga 540
tgtggcctcc agagggctag atgtggaaga tgtgaaattt gtcatcaatt atgactaccc 600
taactcctca gaggattata ttcatcgaat tggaagaact gctcgcagta ccaaaacagg 660
cacagcatac actttctttta cacctaataa cataaagcaa gtgagcgacc ttatctctgt 720
gcttcgtgaa gctaatcaag caattaatcc cmagttgctt cagttggtcg aagacagagg 780
ttcaggtcgt tccaggggta gaggaggcat gaaggatgac cgtcgggaca gatactctgc 840
gggcaaaagg ggtggattta ataccttttag agacagggaa aattatgaca gaggttactc 900
tagcctgctt aaaagagatt ttgggggcaaa aactcanaat ggnggttaca gtgcttgcaa 960
attcaccaat gggagctttg gaagtaattt tgggncttgc tggnattcng gaccagtttt 1020
aggactggga attccaacan gggccttacc nc 1052

<210> 598
<211> 2093
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (969)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1422)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (1425)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1481)
<223> n equals a,t,g, or c

<400> 598
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ctgcagagtc acgtctgtgc aaagactgca ccagagccct tctgtgtcac ggcgggctgt 120
gcacccatgc acacacctac gcacacacaa cactccgcac tgcagtatat tcttgccaaa 180
gatttccttt aaaagcaagc acttttacta attattattt tgtaaatgtt tatcttcttc 240
tgtcttctcc ctccctgaat ctatttact gttgtttatt gttgaatctg tgtgtcagcc 300
aggagagcgc tgtctggcct tgaacatggg ctgggatggg aaagggtctg ggagaagatg 360
ggcaacaaag agccagggag tcatggacat cgcagcgacg cagaccccag caggttcagt 420
cccgtgctgc caccagctgt ccagctgggt gtctggaggg aagagggcag aggagggtca 480
tgtcccttca gctggggggag gggcccagtg agctccacgt ggcttttttcc caaagggagc 540
aagagggaag gattgggcga gaaaacaatg gagaggggac ctgcgaagga aaacagggag 600
gaagtgagcg gtttgatcag cctgctatca cggtgttctg gctctcttat ttagccaggc 660
gcttaaggga cagatacatc acatcctaag tttgggaaag gcctttgacc catgtcatct 720
gagcgtctcc tccagtagct ctgaaagctg tggacaccaa tggccaggat tccttctccc 780
ctggtttttg aggatccctg ggtcttctga gactggccag gagagggatg gtggggccag 840
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ctctcaggag gttagtgagt aggagattct gccttgttct gatgagcctg tgcaggggct 960
ccaggggganc atgctgtcca gggggcacag aagggtggtg agtgtgatca aatctagtct 1020
cactcccact ttttagtctc actcctactt ttgtccacca ccctgcctc ctggatcttc 1080
tcccactttt ttttcagct ttaggacctg gggagatcct gtgagtcaag gcagacaccc 1140
aatcctgccc ccacactcgg ggtcctccaa gaggttgggg ggcagagtcc cagagcagcc 1200
ctttaccca ggtccaggcc ctggaatcct gagactcgcg tttccttggc cagtggtaac 1260
acaggacgtg tgtgcgcatg tgcaagtgtg gatgtatgt tgtgcgtgtg ttttgctcat 1320
ttctttaggg aacttgggag tcggggttgg aggtgctggg caatggaact tcaaattcaa 1380
tgtcgcccag cagtgagggg agtcgggagg tgaggcctgt angcnaacca attggtggag 1440
tctcagcgat acccaggtga gaagtggttc acccagaggg ncaggtggg ggcctcgggc 1500
agatctgtcc ctcttggccc ctctgtcctc aaatgtccaa aatgttggag gacctctgtt 1560
catatcccac gcctgggctc ttgccagcag tggagttact gtagagggat gtcccaagct 1620
tgttttccaa tcagtgttaa gctgtttgaa actctcctgt gtctgtgttt tgtttgtgcg 1680
tgtgtgtgag agcacatcag tgtgtgcagg ctgtgtttcc ccatttctct cctcccttca 1740
gacccatcat tgagaacaaa tgtaagaaat cccttcccac caccctccct gcctcccagg 1800
ccctctgcgg gggaaacaag atcacccagc atccttcccc accccagctg tgtatttata 1860
tagatggaaa tatactttat attttgtatc atcgtgccta tagccgctgc caccgtgtat 1920
aaatcctggt gtmtgctcct tatcctggac atgaatgtat tgtacactga cgcgtcccca 1980
ctcctgtaca gctgctttgt ttctttgcaa tgcattgtat ggctttataa atgataaagt 2040
taaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa      2093

<210> 599
<211> 562
<212> DNA
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<213> Homo sapiens

<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (524)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (549)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (561)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (562)
<223> n equals a,t,g, or c

<400> 599
gcttactgca gcctcgatct tctgggttca agtgatcttc tgcctcagcc tctcgtgtac 60
ctgaggccac aggcacacac cgccacacct ggctaatttt tattattttt tttgtagaga 120
cgaggtctca ctatgcccag gttggtctca aactcctgtg ctcaagcaat cctcccatct 180

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tggctcccta agtgctggga ttataggcat gagccaccgt gcccggcctc atgtctgcat 240
gttaaaagtt ctgagaattc ctatggaaaa taaatttgac tttgcttaat gcagttcctc 300
taaacttact taattccttt ttcttttttt ctttactatt tattaattnt tctcttttct 360
cagaccttgc agggatgaaa ggnccccttt tctcaaaacc ctcttatgat ctctacactc 420
tgcaagggct tctgaangac agcangctga gaaaggccga tcctaacact tanctctttg 480
aagacacttt taaaactggt aacagtattt atagctttaa aagnacccat ggttcttaag 540
gcccgttant aaaaaaaaaa nn                                         562
```

<210> 600
<211> 528
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)

514

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (458)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (493)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (507)
<223> n equals a,t,g, or c

<400> 600
nngcaagnng ncaccaaccc tcactaaagg gaacaaaagc tggagctcca ccgcggtgcg 60
gccgctctag aactagtgga tcccccgggc tgcaggaatt cggnacgagg gaggctgagg 120
ctggagtgca gtggtgtgat ctcggctcac tgcaacctct gcctcccagg ttccagcaat 180
tctcctgcct cagcctccct agtggctggg atgacaggcg cctgccatca tgcctgacta 240
gtttttgtat ttttagtaga dacggcgttt caccatgttg gccaggctgg tctcaaactc 300
ctgacctcag gtgatccgcc tacctcagcc tcccaaagtg ctgggattac aggcgtgatc 360
caccacacct ggcccttgca atcttctact ttaaggtttg cagagataaa ccaatanatc 420
cacaccgtac atctgcaata tganttcaag aaaggaanta gtaccttcaa tacttaaaaa 480
tagtcttcca canaaaatac tttattnctg atctatacaa attttcag   528

<210> 601
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (145)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (174)

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (199)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (212)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (306)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (450)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c


<400> 601
gcctacacgc cgccgcttgt gctgcagcca tgtctctagt gatccctgaa aagttccagc  60
atattttgcg agtactcaac accaacatcg atgggcggcg gaaaatagcc tttgccatca 120
ctgccattaa gggtgtgggc cgaanatatg ctcatgtggn gttgaggaaa gnanacattg 180
acctnaccaa nagggcggna gaactcactg angatgangt ggaacgtgtg atcaccatta 240
tgcagaatcn acgccagtac aagatcccag actggttctt gaacagacag aatgatngta 300
angatnaatc tacttcaagc taacatgcta tcatttctac nttgagtact gctaaggttt 360
ctttccacaa cttgtacaca atgttattna ctgcccagtt tataatttcc ctnttggttc 420
ccattttaag acttatttaa ttantatgcn ttttaaattt ttgagacntg ataga       475


<210> 602
<211> 288
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (84)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c
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517

<400> 602
cacattctca ggaactctcc ttctttgggg agcctcagat gggaagggac tcgagcccca 60
cctgtccctg gactctggaa tgtntggctg aagttgaggn tctcttactc tctaggccac 120
ggaattaacc cgagcaggca tggaggcctc tgctctcacc tcatcagcag tgaccagtgt 180
ggccaaagtg gtcagggtgg cctctggctc tgccgtagtt ttgccctgg ccaggattgc 240
tacagttgtg attggaggag ttgtggccat ggcggctgtg cccatggt   288

<210> 603
<211> 432
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<220>
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<222> (416)
<223> n equals a,t,g, or c

<220>
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<222> (421)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c

<400> 603
ggcgccccgg agagctcttg cgcgtcttgt tcttgcctgg tgtcggtggt tagtttctgc 60
gacttgtgtt gggactgctg ataggaagat gtcttcagga aatgctaaaa ttgggcaccc 120
tgcccccaac ttcaaagcca cagctgttat gccagatggt cagtttaaag atatcagcct 180
gtctgactac aaaaggaaaa tatgttgtgt tcttctttta ccctcttgac ttcacctttg 240
tgtgccccac ggagatcatt gctttcagtg ataggcaga agaatttaag aaactcaact 300
gccaagtgat tggtgcttct gtggattctc acttctgtca tctagcatgg gtcaatacac 360
ctaanaaaca aggaggactg ggacccatga acattccttt ggtatcanac ccaacncaca 420
nttgntcagg at   432

<210> 604
<211> 371
<212> DNA
<213> Homo sapiens

518

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<220>
<221> misc feature
<222> (282)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (291)
<223> n equals a,t,g, or c


<400> 604
atttagtgtg ataaggagaa gaacctgctg catgtcacag acaccggtgt aggaatgacc 60
agagaagagt tggttaaaaa ccttggtacc atagccaaat ctgggacaag cgagttttta 120
aacaaaatga ctgaagcaca ggaagatggc cagtcaactt ctgatttgat tggccagttt 180
ggtgtcggtt tctattccgc cttccttgta gcagataagg ttattgtcac ttcaaaacac 240
aacaacgata cccagcacat ctgggagtct gactccaatg antttctgt naattgctga 300
cccaagaggg aaacactcta ggacgggggga acgacaattt acgtggagta tggaccaatt 360
tccttattaa g                                                       371


<210> 605
<211> 392
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (331)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c


<220>
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519

<221> misc feature
<222> (363)·
<223> n equals a,t,g, or c

<400> 605
ggcacagccg gcatcgtggt gtgttcttga ctccgctgct cgccatgtct tctcacaaga 60
ctttcaggat taagcgattc ctggccaaga aacaaaagca aaatcgtccc attccccagt 120
ggattcggat gaaaactggg aaataaaatc aggtacaact ccaaaaggag acattggaga 180
agaaccaagc tgggtctatg aaggaattgc acatgagatg gcacacatat ttatgctgtc 240
tggaaggtgc acgatccatg ttaccatatg caagctggaa aatgtgcacc antatctggg 300
agattttcga cgtgtttttc cnctctggan nctgtttatg gnacaaggtt ggtttggttt 360
ggntccatta aattaaatta ggtaaaggcc cc   392

<210> 606
<211> 442
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (255)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

<400> 606
gcgtcttcag ggtggaagcc tggcgcacgt ccggagagac acccgccatt tcacccagta 60
agcgggcccg gcctgcggag gtgggcggca tgcagctccg ctttgcccgg ctctccgagc 120
acgccacggc ccccacccgg ggctccgcgc gcgccgcggg ctacgacctg tacagtgcct 180
atgattacac aataccacct atggagaaag ctgttgtgaa aacggacatt cagatagcgc 240
tcccttctgg gtgtnatgga agagtggctc cacggtcagg cttggctgca aaacactta 300
ttgatgtagg antggtgtca tagatgaaga ttataagagg aatgttggtg ttgtactgtt 360
taattttngg caagaaagtt tgaagtcaaa aaaggtgatc gaattgcaca gtcatttgca 420
acggattttt tatccagaaa ta   442

<210> 607
<211> 182
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (53)

520

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<400> 607
gcaccatggc ggttggcaag aacaagcgcc ttacgaaagg cggcaaaaag ggngccaaga  60
agaaagtggt tgatccattt tttaagaaag attggtatga tgtgaaagca cctgctatgt 120
tcantataag anatattgga aagacgctcg tcaccaggac ccaaggaacc aaaattgcat 180
ct                                                                182

<210> 608
<211> 673
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (561)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (569)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (603)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (604)
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521

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (627)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (630)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (652)
<223> n equals a,t,g, or c

<400> 608
nncaaaatta accccctaat aaaattaatt aaccactcac tcatcgacct ccccaccca 60
tccaacatct ccgcatgatg aaacttcggc tcactccttg gcgcctgcct gatcctccaa 120
atcaccacag gactattcct agccatgcac tactcaccag acgcctcaac cgcctttca 180
tcaatcgccc acatcactcg agacgtaaat tatggctgaa tcatccgctg ccttcacgcc 240
aatggcgcct caatattctt tatctgcctc ttcctacaca tcgggcgagg cctatattac 300
ggatcatttc tctactcaga aacctgaaac atcggcatta tcctcctgct tgcaactata 360
gcaacagcct tcataggcta tgtcctcccg tgaggccaaa tatcattctg aggggccaca 420
gtaattacaa acttactatc cgccatccca tacattggga cagacctagt tcaatgaatc 480
tgaggaggct actcagtaga cagtcccacc ctcacacgat tctttacctt tcacttcatc 540
ttgcccttca ttattggcag ncctacagna ctcacctcta tttttgccg aaacggggat 600
canncaaccc ccttagggaa tcacctnccn tttccgataa aaatcaacct tncacccttt 660
actacacaat cat   673

<210> 609
<211> 553
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (449)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (497)
<223> n quals a,t,g, or c

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<220>
<221> misc feature
<222> (536)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (545)
<223> n equals a,t,g, or c

<400> 609
gcggacgcgt gggttttaat acaaatgtta tttatagttt acaatgaatg cactgcataa 60
aaacttttgg acgacaatgg gaacattgct gaagaactga gcattctcaa atggaacaca 120
gacagtgtag aagaattcct gagtgaaaag ttggaacgca tataaatctt gcttaaattt 180
tgtcctatcc ttttgttacc ttatcaaatg aaatattaca gcacctagaa aataatttag 240
ttttgcttgc ttccattgat cagtctttta cttgaggcat taaatatcta attaaatcgt 300
gaaatggcag tatagtccat gatatctaag gagttggcaa gcttaacaaa acccattttt 360
tataaatgtc catcctnctg catttgttga taccactaac aaaatgcttt gtaacagact 420
tgcggttaat tatgcaaatg atagtttgng ataattgggg ccaagtttta cgaacaacag 480
atttctaaat tagaganggt taccaggaca gatgatacta tgcctaaggg ctgggngccc 540
ttttnaagga aga                                                 553

<210> 610
<211> 458
<212> DNA
<213> Homo sapiens

<220>
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<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (412)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c

<400> 610
acccacgcgt ccggctnncc gatgagacca atatatgcaa tggtaagcca gtagatggac 60
tgactacttt gcgcaatggg acattagttg cattccgagg tcattatttc tggatgctaa 120
gtccattcag tccaccatct ccagctcgca gaattactga agttttgggg aatcctttcc 180
cccattgata ctgttttact aaggggaatt tttcnagaaa aggtngcagc attcagcagt 240
```

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atatttataa acaggaacct gtacagaagt gcccttggaa naaggcctgc tctaaaatta 300
tccagtggta tngngnaacg acacaggtta agagacgtcg cttnaacgtg ctaaaaggac 360
ctttccaana cacaccatca gaatccataa tcacctgcca aatggggtat cnagaccaag 420
gggcctccan aaggagttaa gnggttaccg tggggngg                         458
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<210> 611
<211> 565
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (469)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (471)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (534)
<223> n equals a,t,g, or c

<400> 611
aagcnganac caaccctcac taaagggaac aaaagctgga gctccaccgc ggtgcggccg 60
ctctagaact agtggatccc ccgggctgca ggaattcggc acgaggttgc agtgagccga 120
gatcgcacca ttgcactcca gtctgggcaa cagagtgaga ttccgtctca aaaaaaaaaa 180
gaaaaggaaa aaaaaatagc attataccte ttccttgtct caaccgccat gaaaattctg 240
aacactccaa attcagttga ataatccaaa acaaaattta taagtataaa ataattttac 300
ttcttatagt aatagtatac tttaaaaagc ctcagggtat attatcttct aaacagctac 360
aattcagtgc agctacatta accaactatg ttctctagtt gaggaacaac taggcctatt 420
tcactgctgt gtagcctcag tgcctaacat gggtgccaaa taaatattng nggattacac 480
tgaattgtaa aaaccattcg tttttgttta caattgccaa aaatctcaaa aggncctgta 540
tttatgtaat tctttgaaat tatta                                      565
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<210> 612
<211> 442
<212> DNA
<213> Homo sapiens
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<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (441)
<223> n equals a,t,g, or c

<400> 612
gaccagggtt gctccgtccg tgctccgcct cgccatgact tcctacagct atcgccagtc 60
gtcggccacg tcgtccttcg gaggcctggg cggcggctcc gtgcgtattg ggccggggt 120
cgcttttcgc gcgcccagca ttcacggggg ctccggcggc cgcggcgtat ccgtgtcctc 180
cgcccgcttt gtgtcctcgt cctcctcggg gggctacggc ggcggctang gcggcgtcct 240
gaccgcgtcc ganggggctgc tggcgggcaa cgagaagcta accatgcaga actnaangac 300
cgcttggctt ctactggana agttcgcncc tgnaggggca aagggaacta aaagttaaat 360
ccgcnattgt acaaaacagg gcttggcctt cccggataaa gcattataaa gancntcagg 420
aattggggaa aaatttttgn nc                                         442

<210> 613
<211> 306
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
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<221> misc feature
<222> (190)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (199)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (213)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c

<400> 613
ggcanaggag aactccagga ttgtcctgca gatcgacaac gcccgtttgg ctgcagatga 60
cttccgaacc aagtttgaga cggaacaggc tctgcgcatg ancgtggagg ccgacatcaa 120
cggcctgcnc aggtgctgga tgagctgacc ctggcccaga accgaccttg gngatgcagt 180
tcgangcctn angaagagnt ggcctaccta agnaggaccc tgaggggggaa tcaattncgt 240
taaggggcca atgggaggcc attaattttg anttggttcc ttccggacct tttggccant 300
cntgtt                                                          306

<210> 614
<211> 555
<212> DNA
<213> Homo sapiens
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<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (543)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (545)
<223> n equals a,t,g, or c

<400> 614
ggcgactaca gccactacta cacgaccatc caggacctgc gggacaagat tcttggtgcc 60
accattgaga actccaggat tgtcctgcag atcgacaatg cccgtctggc tgcagatgac 120
ttccgaacca agtttgagac ggaacaggct ctgcgcatga gcgtggaggc cgacatcaac 180
ggcctgcgca gggtgctgga tgagctgacc ctggccagga ccgacctgga gatgcagatc 240
gaaggcctga aggaagagct ggcctacctg aagaagaacc atgaggagga aatcagtacg 300
cttaggggcc aagtgggagg ccaggtcagt gtggaggtgg attccgctcc gggcaccgat 360
ctcgccaaga tcctgagtga catgcgaagc cnatatgagg tcatggccna gcagaaccgg 420
aaggatgctt aancctggtc accagcccgg actgaagaat tgaacccgga ggtcgcttgc 480
cacacggagc aacttcngat gagcaggtcc aaggttactg acctgcggcg caacccttaa 540
ggncntgaga atgaa                                                   555

<210> 615
<211> 575
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<400> 615
tganagaaat taaccctcac taaagggnac aaaagctgga gctccaccgc ggtgcgnccg 60
ctctagaact agtggatccc ccgggctgca ggaattcggc acgaggctaa ggctgcgttg 120
gggtgaggcc ctcacttcat ccggcgacta gcaccgcgtc cggcagcgcc agncctacac 180
tcgcccgcgc catggcctct gtctccgagc tcgcctgcat ctactcggcc ctcattctgc 240
acgacgatga ggtgacagtc acggaggata agatcaatgc cctcattaaa gcagccggtg 300
taaatgttga gccttttggg cctggcttgt ttgcaaaggc cctggccaac gtcaacattg 360
ggagcctcat ctgcaatgta ggggccggtg gacctgctcc agcagctggt gctgcaacca 420
gcaggaggtc ctgcccccctc cactgctgct gctccagctg aggagaagaa agtggaagca 480
aagaaagaag aatccgagga gtctgatgat gacatgggct ttggtctttt tgactaaacc 540
tcttttataa catgttcaat aaaaagctga acttt   575

<210> 616
<211> 346
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c

<400> 616
ctcgtgccga attcggcacg agccgccgcc tccgccgcag acgccgccgc gatgcgctac 60
gtcgcctcct acctgctggc tgccctaggg ggcaactcct cccccagcgc caagggnatc 120
aagaagatct tggacaacnt gggtatcgag gcggacgacg accggctcaa caaggttatc 180
agtgagctga atgaaaaaa cattgaagac gtcattgccc agggtattgg caagcttgcc 240
agtgtacctg ctggtggggc tgtagccgtc tctgctgccc caggctctgc agcccctgct 300
gctggttctg cccctgctgc agcagaggag aagaaagatg agaaga   346

<210> 617
<211> 409
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<400> 617
gggcagggct gagccagcga cgccctccat tcactctccg cgcccgttct ccggctgtcc 60
tcccgttccg ctgcccgccc tgccaccatg acggaacagg ccatctcctt cgccaaagac 120
ttcttggccg gaggcatcgc cgccgccatc tccaagacgg ccgtggctcc gatcgagcgg 180
gtcaagctgc tgctgcaggt ccagcacgcc agcaagcaga tcgccgccga caagcagtac 240
aagggcatcg tggactgcat tgtccgcatc cccaaggagc agggcgtgct gtccttctgg 300
aggggcaacc ttgccaacgt cattcgctac ttccccactc aagccctcaa cttcgncttc 360
aaggataagt acaagcagan cttcctgngg ggcgtgnaca agcacacnc   409

<210> 618
<211> 473
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>

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<221> misc feature
<222> (9)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c


<220>
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<222> (352)
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<220>
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<220>
<221> misc feature
<222> (446)
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<220>
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<400> 618
ggcanagcnc aaagacaggc ttttnagatt ggatctccgt ggcgtactat ggatgcttcc 60
gagaggggc gactattata caagttggca agttgatcaa agaagctgcc gggaaaagca 120
atctgaagag ggtgaccctg gagcttggag gaaagagccc ttgcattgtg ttagctgatg 180
ccgacttgga caatgctgtt gaatttgcac accatggggt attctaccac cagggccagt 240
nttgtatagc cgcatncagg attttttgtgg aagaatcaat ttatgatgag tttgttcgaa 300
ggagtgttga gcgggttaag antatatcct tgggaantcc tttgaccca gnagttcann 360
caagnccntc agattgacaa ggaccatttg gtaaatactt gaccccattg agagtnggaa 420
gaaagaaggg gccaantgga tntggnggag gccctggggg ataaaggtan ttg        473

<210> 619
<211> 604
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (371)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<220>
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<222> (492)
<223> n equals a,t,g, or c

<220>
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<222> (500)
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<222> (554)
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<222> (587)
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<220>
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<222> (593)
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<400> 619
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gaactagtgg atcccccggg ctgcaggaat tcggcacgag gtggtccccc tggcagggac 120
aaatggcgag actaccaccc aagggttgga tgggctgtct gagcgctgtg cccagtacaa 180
gaaggacgga gctgacttcg ccaagtggcg ttgtgtgctg aagattgggg aacacacccc 240
ctcagccctc gccatcatgg aaaatgccaa tgttctggcc cgttatgcca gtatctgcca 300
gcagaatggc attgtgccca tcgtggagcc tgagatcctc cctgatgggg accatgactt 360
gaagcgcttg ncagtatgtg accgaaaagg tgcttggctt gctgctacaa ggctcttgag 420
tgaccaccac atctacctgn aaggcacctt gctgaagccc aacatggtcc cccaggccat 480

534

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gcttgcactc anaagttttn ttatgaagga gattgcccat ggcgaacccg tctcaancgc 540
tgtgcccgca caantgcccc cccgcttgtc acttgggatc aacnttncct gtnttggaag 600
gcca                                                            604
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<210> 620
<211> 312
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c


<400> 620
gngccaacag ccttgcctgt caaggaaagt acactccgag nggtcaggct ggggctgctg 60
ccagcgagtc cctcttcgtc tctaaccacg cctattaagc ggaggtgttc ccaggctgcc 120
cccaacactc caggccctgc cccctcccac tcttgaagag gaggccgcct cctcggggct 180
ccaggctggc ttgcccgcgc tctttcttcc ctcgtgacag tggtgtgtgg tgtcgtctgt 240
gaatgctaag tccatcaccc tttccggcac actgccaaat aaacagctat ttaaggggga 300
aaaaaanann nn                                                   312
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<210> 621
<211> 248
<212> DNA
<213> Homo sapiens

<220>
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<222> (141)
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<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c

<220>
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<222> (195)
<223> n equals a,t,g, or c

<220>
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<222> (198)
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<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (246)
<223> n equals a,t,g, or c

<400> 621
gatgattgtg aattcaaggc tgaaggaaat agcaaattca cctacacagt tctggaggat 60
ggttgcacga aacacactgg ggaatggagc aaaacagtct ttgaatatcg aacacgcaag 120
gctgtgagac tacctattgt ngatattgca ccctatgaca ttggtggtcc tgatcaagaa 180
tttggtgtgg acntnggncc tgtttgnttt ttataaacca aactctatct gaaatcccaa 240
caaaanaa   248

<210> 622
<211> 344
<212> DNA
<213> Homo sapiens

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<222> (4)

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
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<220>
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<222> (31)
<223> n equals a,t,g, or c

<220>
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<222> (273)
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<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
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<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c
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<220>
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<222> (342)
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<400> 622
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gtatgggaaa tgccatgttt gtcaaagagc aactcagtct gctggacagg ttcacggagg 120
atgccaagag gctgtatggc tccgaggcct ttgccactga ctttcaggac tcagctgcag 180
ctaagaagct catcaacgac tacgtgaaga atggaactcg agggactata acctgaacga 240
catacttctc cagctgaagt acacaggcaa tgncagcgna ctnttcatcc tgcctgntca 300
ngncaagatn gnggaagtgg aagccatgtt ggttttcaga gncc   344

<210> 623
<211> 316
<212> DNA
<213> Homo sapiens

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<222> (248)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
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<220>
<221> misc feature
<222> (308)
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<220>
<221> misc feature
<222> (313)
<223> n equals a,t,g, or c

<400> 623
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cggtctgaag ggtctggctg gtgagccagg ttttaaaggc agccgagggg accctgggcc 120
cccaggacca cctcctgtca tcctgccagg aatgaaagac attaaaggag agaaaggaga 180
tgaagggcct atgggctga aaggatacct gggcgcaaaa ggtatccaag gaatgccagg 240
catcccangg ctgtcaggaa tccctgggct gcctgggagg cccggncaca tcanaggaat 300
caagggganac atngga   316

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<210> 624
<211> 445
<212> DNA
<213> Homo sapiens

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<222> (112)
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<220>
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<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

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<222> (187)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (222)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
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<222> (253)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (266)
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<220>
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<222> (311)
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<220>
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<222> (331)
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<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (426)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c


<400> 624
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ccagggctat gcgccaagac cgtctttaag gcgctccagg cccctgcctt gnacgaagaa 120
catggtgaag gttggcggct acatccttgg ggagtttggg aaacctgaat tntggggacc 180
cccgntncca gcccccccagt ggcagttctc cctgctccac tncaagttcc atctgtgaca 240
ngtggccagg ggncgctgct gctgtnccac ctgacatcaa gttcatcaac ctctttcccc 300
gagaccaagg ncaccatcca gggggtnctg ngggtcggt tttccagttg cgcaatgttg 360
acgtggagtt gcagcaggag ncntggagta acttcacctt cagttcatgg gtcagcaaca 420
agttcnggnc aggtgttnga ggagt                                      445


<210> 625
<211> 401
<212> DNA
<213> Homo sapiens


<220>
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540

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<222> (33)
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<220>
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<222> (380)
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<222> (389)
<223> n equals a,t,g, or c

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<222> (390)
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<220>
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<222> (393)
<223> n equals a,t,g, or c

<220>
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<222> (397)
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<400> 625
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gtgtgatctg accggtcgcg ggggaccagc ccagccctat ttcggctcga gcgaggaact 120
tctgctcccg tgactgaact ctgatcttga tagagagtcc cggccatggc agccaaagga 180
ggcaccgtca aagctgcttc agcattcaat gccactgaag atgcccagac cctgaggaag 240
gccatgaagg ggcttggcac cgacgaagat gccatcatca gcgtcctcgc ctaccgcaac 300
acagcccagc gccaggaaat caggacggcc ttacaagagc accattcggc aggggacctt 360
gtgttaagga acggaccccn ttttgtttnn gantggngtg a              401

<210> 626
<211> 315
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (103)
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<220>
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<222> (129)
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<222> (163)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (257)
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<220>
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<222> (296)
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<220>
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<222> (303)
<223> n equals a,t,g, or c

<220>
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<222> (308)
<223> n equals a,t,g, or c

<400> 626
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gctggcacct gggcccgccc gggagctggt gctggtggtc cangtgcata accggcccga 120
atacctcana ctgctgctgg actcacttcg aaaagcccag ggnaattgac aacgtcctcg 180
tcatctttag ccatgacttc tggtcgaccg agatcaatca gctgatcgcc ggggtgaatn 240
tctgtccggt tctgcangtg ttctttcctt tcagcattca gttgttccct aacgantttc 300
cangttantg accta   315

<210> 627

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<211> 412
<212> DNA
<213> Homo sapiens

<220>
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<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc-feature
<222> (282)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (327)
<223> n equals a,t,g, or c

<400> 627
gaaaaagatg agtatgcctg ccgtgtgaac catgtgactt tgtcacagcc caagatagtt 60
aagtgggatc gagacatgta agcagcatca tggaggtttg aagatgccgc atttggattg 120
gatgaattcc aaattctgct tgcttgcttt ttaatattga tatgcttata cacttacact 180
ttatgcacaa aatgtagggt tataataatg ntaacatgga catgatcttc tttataattc 240
tactttgagt gctgtctcca tgtttgatgt atctgagcag gntgctccac aggtagctct 300
agcagggctg gcaacttann aggtggngag cagagaattc tcttatccaa catcaacatc 360
ttggtcagat ttgaactctt caatctcttg cactcaaagc ttgataagga aa      412

<210> 628
<211> 577
<212> DNA
<213> Homo sapiens

<220>
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<222> (52)
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<220>
<221> misc feature
<222> (408)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (418)
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<220>
<221> misc feature
<222> (424)
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<220>
<221> misc feature
<222> (430)
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<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (458)
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<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c

<220>
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<222> (474)
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<220>
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<222> (506)
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<220>
<221> misc feature
<222> (518)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (545)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (546)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (560)
<223> n equals a,t,g, or c

<400> 628
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg cggccgctct anaggatcca 60
agcttacgta cgcgtgcatg cgacgtcata gctcttctat agtgtcacct aaattcaatt 120
cactggccgt cgttttacaa cgtcgtgact gggaaaaccc tggcgttacc caacttaatc 180
gccttgcagc acatcccct ttcgccagct ggcgtaatag cgaagaggcc cgcaccgatc 240
gcccttccca acagttgcgc agcctgaatg gcaaatggga cgcgccctgt agcggcgcat 300
taagcgcggc gggtgtggtg gttacgcgca gcgtgaccgc tacacttgcc agcgccctac 360
gcccggtcct ttcgtttctt cccttccttt ctcgccacgt tcgccggntt tccccgtnaa 420
gctntaaatn gggggctncc tttanggttc cgattaangn tttacgggac cttngaccca 480
aaaacttgat tagggtgatg gttacntaat gggccatngc ctgataaacg gttttgccct 540
ttganttgg agtcccgttn ttaaaaggga ctttggt   577

<210> 629
<211> 703
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (414)

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (428)
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<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c

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<222> (457)
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<220>
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<222> (494)
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<220>
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<222> (499)
<223> n equals a,t,g, or c

<220>
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<222> (518)
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<220>
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<220>
<221> misc feature
<222> (576)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (580)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (586)
<223> n equals a,t,g, or c
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546

<220>
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<222> (603)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (621)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (632)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (643)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (651)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (668)
<223> n equals a,t,g, or c

<400> 629
gactagttct agatcgcgag cggccgctct agaggatcca agcttacgta cgcgtgcatg 60
cgacgtcata gctcttctat agtgtcacct aaattcaatt cactggccgt cgttttacaa 120
cgtcgtgact gggaaaaccc tggcgntacc caacttaatc gccttgcagc acatccccct 180
ttcgccagct ggcagtaata gcgaagaggc ccgcaccgat cgcccttccc aacagttgcg 240
cagcctgaat ggcgaatggg acgcgccctg tagcggcgca ttaagcgcgg cgggtgtggt 300
ggttacgcgc agcgtgaccg ctacacttgc cagcgcccta gcgnccgctc ctttcgcttt 360
cttcccttcc tttctcgcca cgttcgccgg ntttccccgt caagctctaa atcngggct 420
ccctttangg ttccgatnta gtgctgtacg gcacctngac cccaaaaaac ttgattaggg 480
tgatggttca cgtngtggnc atcgccctga tagacggntt ttcgcccttt gacgttggag 540
nccacgttct taatagtgga ctctttggtc caaacnggan caacantgaa cccctatctc 600
ggnctattct tttgatttat nagggatttt gncgatttca ggnctattgg ntaaaaaatg 660
gatcttgntt ttaaccaaaa atttaaacgg cggaatttta agc   703

<210> 630
<211> 638
<212> DNA
<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
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<222> (72)
<223> n equals a,t,g, or c

<220>
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<222> (75)
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<220>
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<220>
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<222> (120)
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<220>
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<222> (153)
<223> n equals a,t,g, or c

<220>
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<222> (213)
<223> n equals a,t,g, or c

<220>
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<220>
<221> misc feature
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<222> (256)
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<220>
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<220>
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<220>
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<222> (327)
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<220>
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<222> (329)
<223> n equals a,t,g, or c

<220>
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<222> (342)
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<220>
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<222> (351)
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<220>
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<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (357)
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<223> n equals a,t,g, or c

<220>
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<220>
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<222> (416)
<223> n equals a,t,g, or c

<220>
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<222> (449)
<223> n equals a,t,g, or c

<220>
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<222> (484)
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<220>
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<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (532)
<223> n equals a,t,g, or c

<220>
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<222> (537)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (570)
<223> n equals a,t,g, or c
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550

<220>
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<222> (574)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (593)
<223> n equals.a,t,g, or c

<220>
<221> misc feature
<222> (613)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (629)
<223> n equals a,t,g, or c

<400> 630
gaaaaaaaaa aaantaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
gggcggccgn tntanaggat ccaagcttac gtacgcgtgc atgcnacgtc atagctcttn 120
tatagggtca cctaaattca attcactggc cgncgtttta caacgtcgtg actgggaaaa 180
ccctggcgtt acccaactta atcgccttgc agnacatccc cntttcgcca gctggcgtaa 240
tagcnaaaag gcccgnaccg atcgcccttc ccaacagttg cgcagcctga atggcaaatg 300
ggacncnccc tgtancggng cattaancnc ggcgggtgtg gnggttaccc ncancgngac 360
cgctacactt gccagngccc tagcgcccgc tcctttcgct ttcttccctt cctttntcgc 420
cacgttcgcc ggctttcccc gtcaagctnt aaatcggggg ctcccttttag ggttccgatt 480
aagngcttta cgggaccttn gnccccaaaa aaacttgatt aggggngatg gntcacngta 540
aaggggccat tgcccttgat aaaacggttn tttngccctt ttgaccttgg aantccccgt 600
ttctttaaaa aangggacct tttggttcna actgggaa   638

<210> 631
<211> 187
<212> DNA
<213> Homo sapiens

<400> 631
ctaagttcta gatcgcgagc ggccgctcta gaggatccaa gcttacgtac gcgtgcatgc 60
gacgtcatag ctcttctata gtgtcaccta aattcaattc actggccgtc gttttacaac 120
gtcgtgactg ggaaaaccct ggcgttaccc aacttaatcg ccttgcagca catcccccttt 180
tcgccag   187

<210> 632
<211> 305
<212> DNA
<213> Homo sapiens

<220>

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<221> misc feature
<222> (2)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c


<400> 632
cnagaagtca agcgggccgt ngncgatagc tggtacgcct gcaggtaccg gtccggaatt 60
cccgggtcga cccacgcgtc cgactagttc tagatcgcga gcggccgctc tagaggatcc 120
aagcttacgt acgcgtgcat gcgacgtcat agctcttcta tagtgtcacc taaattcaat 180
tcactggccg tcgttttaca acgtcgtgac tgggaaaacc ctggcgttac ccaacttaat 240
cgccttgcag cacatccccc tttcgccagc tggcgtaata gcgaagaggc ccgcaccgat 300
cgccc                                                              305


<210> 633
<211> 187
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (180)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (181)
<223> n equals a,t,g, or c

<400> 633
ncttccttan gctcnatata ccntggntgg taccacccct cactataggg aaagctggta 60
cgcctgcagg taccggtccg gaattcccgg gtcgacccac gcgtccgaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa gggnggacga tctagaggat ccaaagctta cgtacncntn 180
natgcaa                                                         187

<210> 634
<211> 243
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (196)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c


<400> 634
aataaggnga ngagngttaa gancggatac gactcactat agggaaagct ggtacgcctg 60
caggtaccgg tccggaattc ccgggtngac ccacgcgtcc gtggaaatct gtcctccana 120
atccaggcca naaagttcac agtcaaatgg ggaggggtat tcttnatgca ggagaccca 180
ggccctggag gctgcnacat acctnaatcc tgtcccangc cggatcctnc tgaagccctt 240
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554

ttt   243

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<210> 635
<211> 180
<212> DNA
<213> Homo sapiens

<400> 635
cccacgcgtc cggaatggtt tagcgccagg ttccccacga acgtgcggtg cgtgacgggc 60
gaggggcgg ccgctctaga ggatccaagc ttacgtacgc gtgcatgcga cgtcatagct 120
cttctatagt gtcacctaaa ttcaattcac tggccgtcgt tttacaacgt cgtgactggg 180

<210> 636
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (507)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (639)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (657)
<223> n equals a,t,g, or c
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555

<220>
<221> misc feature
<222> (747)
<223> n equals a,t,g, or c

<400> 636
atnnanagac ctccatttgg attacgctgg tacgcctgca ggtaccggtc cggaattccc 60
gggtcgaccc acgcgtccgc tagttctaga tcgcgagcgg ccgctctaga ggatccaagc 120
ttacgtacgc gtgcatgcga cgtcatagct cttctatagt gtcacctaaa ttcaattcac 180
tggccgtcgt tttacaacgt cgtgactggg aaaaccctgg cgttacccaa cttaatcgcc 240
ttgcagcaca tccccctttc gccagctggc gtaatagcga agaggcccgc accgatcgcc 300
cttcccaaca gttgcgcagc ctgaatggcg aatgggacgc gccctgtagc ggcgcattaa 360
gcgcggcggg tgtggtggtt acgcgcagcg tgaccgctac acttgccagc gccctagcgc 420
ccgctccttt cgctttcttc ccttcctttc tcgccacgtt cgccggcttt ccccgtcaag 480
ctctaaatcg ggggctncct ttagggntcc gatttaagtg ctttacggac ctcgaccccа 540
aaaaacttga ttagggtgat gggtcacgta gtggccatc gcctgataga cggttttcgc 600
ctttgacgtt ggagtcacgt cttaataggg actcttgtnc aaactggaac aacactnaac 660
ctatttggct atcttttgat tataaggatt tgccgattcg gcattggtaa aaatgagtgt 720
tacaaaatta cgcgattaca aaaatan   747

<210> 637
<211> 497
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c

556

<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c

<400> 637
gtagttctag atcgcgggcg gccgctctag aggatccaag cttacgtacg cgtgcatgcg 60
acgtcatagc tcttctatag tgtcacctaa attcaattca ctggccgtcg ttttacaacg 120
tcgtgactgg gaaaaccctg gcgttaccca acttaatcgc cttgcagcac atcccccttt 180
cgccagctgg cgtaatagcg aagaggcccg caccgatcgc ccttcccaac agttgcgcag 240
cctgaatggc gaatgggacg cgccctgtag cggcgcatta agcgcggcgg gtgtggtggt 300
tacgcgcagc gtgaccgcta cacttgccaa gcgccctaag cgcccgttcc tttcgctttc 360
ttcctttctt ttttngccac gttcggccgg ctttttcccg taaagcttta aatcnggggg 420
gttcccttaa ggggttccga ttaannggtt ttacgggaac ttngacccca aaaaaacttg 480
attaggggggg aaggttn   497

<210> 638
<211> 509
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (424)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (461)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (496)
<223> n equals a,t,g, or c

<400> 638
ggactagttc tagatcgcga gcggccgctc tagaggatcc aagcttacgt acgcgtgcat 60
gcgacgtcat agctcttcta tagtgtcacc taaattcaat tcactggccg tcgttttaca 120
acgtcgtgac tgggaaaacc ctggcgttac ccaacttaat cgccttgcag cacatccccc 180
tttcgccagc tggcgtaata gcgaagaggc ccgcaccgat cgcccttccc aacagttgcg 240
cagcctgaat ggcgaatggg acgcgccctg tagcggcgca ttaagcgcgg cgggtgtggt 300
ggttacgcgc agcgtgaccg ntacacttgc cagcgcccta gcgcccgntc ctttcgcttt 360
cttccttctt tctcggcacg gtcgnccggc tttncccgnc aagctntaaa tcgggggct 420
tccntttagg ggttccgaat taagggcttt accgggaacc ntngaacccc caaaaaactt 480
tgaattaggg tngaangggt tcacggtaa                                  509

<210> 639
<211> 507
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (214)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
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559

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<221> misc feature
<222> (407)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (481)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c


<400> 639
gnctagttct agatcgcgag cggcccgctc tagaggatcc aagcttacgt acgcgtgcat 60
gcgacgtcat agctcttcta tagtgtcacc taaattcaat tcactggccg tcgtttaca 120
acgtcgtgac tgggaaaacc ctggcgttac ccaacttaat cgccttgcag cacatccccc 180
tttcgccagc tggcataata gcgaagaggc ccgnaccgat cgcccttccc aacagttgcg 240
cagcctgaat ggcgaatggg acncgccctg tagcggcgca ttaagcgcgg cgggtgtngt 300
ggttacgcgc agcgtgaccg ctacacttgc agcnccctag cgcccgctcc tttcnntttn 360
ttnccttcct ttntngcacg tttnacggct ttcccgtcaa gctctanatc ggggctcct 420
ttagggttcn atttaatgtt tacggacctt tanccaaaaa acttgatatg gttatggtta 480
ntgtnttgng ccattgcctt atttccc                                    507


<210> 640
<211> 496
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c


<220>
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<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (167)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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561

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<222> (346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (379)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (393)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (426)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (427)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c

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<222> (441)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (459)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (478)
<223> n equals a,t,g, or c

<400> 640
aattcggcan agaccaaaat gcagatttnc gtnaaanccc ttacggggga agaccatcac 60
cctcaaggtt aaaccctcgg aatacgatag gaaaatgtaa aggccaagat ccaggataag 120
gaaggnattc ctcctgaatn cagcagagaa ctgaatcttt gcctggncaa gcagctggga 180

```
aggatgggac gttactttgt gctgaactta caatatttca aaaggggttc ttacttcttn 240
atcttgtgtt gagaatttcg tgggtggtgc ttaggaaagg ggaaggagga agtttttaca 300
accattccca ggaaggntta ggcccagggn aaagganggt ttaagntggt tgtncncgaa 360
atttttagg gngggttgng attgggcaan tnngtnggct ttggttgggg ggttcccctt 420
tttaanngan ttngggntt nggggngttt tttttgggnn ggnaaatttt tttaaggnct 480
tttttttggg ggaaaa                                                496
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<210> 641
<211> 186
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (112)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (133)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (167)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (177)
<223> n equals a,t,g, or c

<400> 641
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ggcaaacatg cagatctttg tgaagaccct cactggcaaa accatcaccc ttgaggtcga 60
gcccagtgac accattgaga atgtcaaagc caaaattcaa gacaaggagg gnatcccacc 120
tgaccagcag cgnctgatat ttgccggnaa acagctggaa ggatggncgc aactctntca 180
gactac                                                          186
```

<210> 642
<211> 519
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (168)

564

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (188)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (209)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (216)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (282)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (494)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (500)
<223> n equals a,t,g, or c
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<400> 642
ggcacgaggc cctctgaaga ggaggccccc aggtctccac tggcaccctc cgaagggctg 60
gctccgatgt atttgatggt gacctgggaa tggggcagcc aagggctgca aagcctcccc 120
acacatgacc ccagccctct acagcggtaa ggtgagggac ccacattncc cctgccctct 180
gagacttngg gggacgttgc ccccctgana tgcagnnngg gcctgaatat gtgaaccagc 240
cagatgttcg gccccagccc ccttcgcccc gaagatgngc tngnctgctg cccgacctnc 300
ttggtgccac tctggnaagn ggccaagaat ctnttcccca gggaagaatt gggtcgtcaa 360
aagnggtttt tgcnttttgg gggttccgtt gagaancccg agtangttta caaccccaag 420
ggaagaanct tcccctnaag ccccaacctt cttccttgct taagccagcc tttgacaacc 480
tctaataatt ggancaagan ccaacaaaac cgggggggtc                        519


<210> 643
<211> 138
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (92)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (103)
<223> n equals a,t,g, or c
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<400> 643
agttccttgc ngcaggcaac ccacttaggt ggccancaat cttgacttcc agatggaaga 60
gtgacatcta tnanaggaaa agtgatggca tntatatcat anntctcaag aggacctggg 120
agaagcttct gctgggca                                                138

<210> 644
<211> 602
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (530)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (554)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (562)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (591)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (602)
<223> n equals a,t,g, or c

<400> 644
gcccacgcgt ccggcgagct gagtggttgt gtggtcgcgt ctcggaaacc ggtagcgctt 60
gcagcatggc tgaccaactg actgaagagc agattgcaga attcaaagaa gctttttcac 120
tatttgacaa agatggtgat ggaactataa caacaaagga attgggaact gtaatgagat 180
ctcttgggca gaatcccaca gaagcagagt tacaggacat gattaatgaa gtagatgctg 240
atggtaatgg cacaattgac ttccctgaat ttctgacaat gatggcaaga aaaatgaaag 300
acacagacag tgaagaagaa attagagaag cattccgtgt gtttgataag gatggcaatg 360
gctatattag tgctgcagaa cttcgccatg tgatgacaaa ccttggaaga gaagttaaca 420
gatgaagaag tttgatgaaa tgatcaggga agcagatatt gatggtgatg gtcaagtaaa 480
ctatgaagag tttgtaccaa atgatgacag caaaagtgaa agacctttn ccagaatggg 540
gttaaatttc ttgnaccaaa antggttaat ttggcctttt ctttggttgg naacttatct 600
gn                                                                 602

<210> 645
<211> 112
<212> DNA
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<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (106)
<223> n equals a,t,g, or c

<400> 645
atntgttggg ccggaactgg gctngtttca ccggaaagaa ngtgggganct gcctctgana 60
atgtgtatgt ccacatacca caccttagga attctcacga aaagtnttcc aa          112

<210> 646
<211> 514
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<400> 646
cagcgggcca ctctggatcc tgggcgacgt cttcatcggc cgctactaca ctgtgtttga 60
ccgtgacaac aacagggtgg gcttcgccga ggctgcccgc ctctagttcc caaggcgtcc 120
gcgcgccagc acagaaacag aggagagtcc cagagcagga ggccctggc ccagcggncc 180
ctcccacaca cacccacaca ctcgcccgcc cactgtcctg ggcgccctgg aagccggcgg 240
gccaagccga cttgctgttt tgttctgtgg tttcccctcc ctgggttcaa aaatgctgcc 300
tgctgtctgt ctctccatct tgtttggtgg gttaaactga tccaaaanaa aatttgttcc 360
gtgattggaa aaaccaccca acttggaanc nactcttttt cctgggtcct tctctccagg 420
atcccccccg gcctacaagc cgtnggttaa cctacccaac agngcncccg gcnccttgaa 480
ctgcngctaa gcccttccaa ttggccattg gttc                             514

<210> 647
<211> 525
<212> DNA
<213> Homo sapiens
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570

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<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (517)
<223> n equals a,t,g, or c

<400> 647
ccctactaat ntgngcaaaa gcncngagct ccaccgcggt ggcggccgct ctagaactag 60
tggatccccc ggnttgcagg aattcggcac gagcacgcag cggcccgtgg acatcgtctt 120
cctgctggac ggctccgagc ggctgggtga gcagaacttc cacaaggccc ggcgcttcgt 180
ggagcaggtg gcgcggcggc tgacgctggc ccggagggac gacgaccctc tcaacgcacg 240
cgtggcgctg ctgcagtttg gtggccccgg cgagcagcag gtggccttcc cgctgagcca 300
caacctcacg gccatccacg aggcgctgga gaccacgcaa tacctgaact ccttctcgca 360
cgtgggcgca ggcgtggtgc acgccatcaa tgccatcgtg cgcagcccgc gtggcggggc 420
ccggaggcac gcagagctgc cttcgtggtc ctcacggacg gcgtcacggg caacgacagn 480
ctgacgagtc ggcgcactcc atgcgcaagc agaacgngga cccac                   525

<210> 648
<211> 317
<212> DNA
<213> Homo sapiens
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<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (159)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (171)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
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<221> misc feature
<222> (194)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (245)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<400> 648
gcncagatgg gcatgctgaa ggggcctctt cttaacaaat ttctgaccac agccaaagat 60
aagaaccgct gggaggacnc tggtaagcag ctctacaacg tggaggccac atcctatncc 120
ctcttngccc tactgcagct aaaagncttt gactttgtnc ctcccgtcgt ncnttngctc 180
aatgnacaga gatnctacgg tggtggntat ggctctaccc aggccacctt catggtgttc 240
caagncttag ctcaatanca gaaggacggc cctgaccacc aggcactgaa ccttgangtg 300
nacctccaaa tgctcng 317

<210> 649
<211> 575
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c

573

<220>
<221> misc feature
<222> (509)
<223> n equals a,t,g, or c

<400> 649
gtaggaacac cctcatcatc tacctggaca aggtctcaca ctctgaggat gactgtctag 60
ctttcaaagt tcaccaatac tttaatgtag agcttatcca gcctggagca gtcaaggtct 120
acgcctatta caacctggag gaaagctgta cccggttcta ccatccggaa aaggaggatg 180
gaaagctgaa caagctctgc cgtgatgaac tgtgccgctg tgctgaggag aattgcttca 240
tacaaaagtc ggatgacaag gtcaccctgg aagaacggct ggacaaggcc tgtgagccag 300
gagtggacta tgtgtacaag acccgactgg caaggttcaa gctgtccaat gactttgacc 360
gagtacatca tggccattga gcagaccatc aagtcaggct cggatgaggt gcaggttgga 420
cagcagcgca cgttcatcag ccccatcaag tgcagagaag ccctgaagct tgaggagaag 480
aaacactact tcatgtgggg nctcttctnc caattctggg gagagaagcc caaccttagc 540
tacatcatcg ggaaggacac ttgggtggag cactg   575

<210> 650
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (186)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (243)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (269)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (276)
<223> n equals a,t,g, or c

<400> 650
tcgacccacg cgtccggcat tgtctatcat tgcactggag atccaagcac agaagtgtgt 60
agagttaaca gaaggaatag aatgtcttca gacacattcc aagataaatg gcagagattt 120
gaccttctgg caagaacttg tatccaagtg tttaactgaa tattcatcta agcaaagtgg 180
ttccanacca aatgttccag aagtttgaaa atggatttgt tcctggacgt actgcacggc 240
aanctgaagc acaggntact aacgngntna acccanc   277

<210> 651
<211> 357
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (86)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (89)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

<220>
<221> misc feature

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<222> (106)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (221)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<400> 651
ggcacaggnt ccngggtgga gctggctgag tcgcgcgctc tgctccaccc ggggggggctg 60
tttttttctgg gcctggctcg cggcgnacng agatggnagn gcagtnggac gaggccgtga 120
agtaatacac cctaggagga gattcagaag cacaaccaca gcaagagcac ctggnctgat 180
cctgncacca caaggtgtac gaatttgacc aaatttctgg nagaggcatc cctggtgggg 240
gaggaagttt taaggggaac aagcttggag gtgacgctac ttgaggaant tttgagggnt 300
gttcggggca cttttaccag ntgncccaag ggaaaattgt tcccaaaaac atttnca    357
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<210> 652
<211> 190
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (180)
<223> n equals a,t,g, or c

<400> 652
ggacgctact tcccctatca tagaagagct tatcaccttt catgatcacg ccctcataat 60
cattttcctt atctgcttcc tagtcctgta tgcccttttc ctaacactca caacaaaact 120
aactaatact aacatctnag acgctnanga aatagaaacc gtctgaacta tnctgcccgn 180
catcatccta                                                        190

<210> 653
<211> 603
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (600)
<223> n equals a,t,g, or c
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577

<400> 653
gcttcgaccc cgccggagga ggagacccca ttctatacca acacctattc tgatttttcg 60
gtcaccctga agtttatatt cttatcctac caggcttcgg aataatctcc catattgtaa 120
cttactactc cggaaaaaaa gaaccatttg gatacatagg tatggtctga gctatgatat 180
caattggctt cctagggttt atcgtgtgag cacaccatat atttacagta ggaatagacg 240
tagacacacg agcatatttc acctccgcta ccataatcat cgctatcccc accggcgtca 300
aagtatttag ctgactcgcc acactccacg gaagcaatat gaaatgatct gctgcagtgc 360
tctgagccct aggattcatc tttcttttca ccgtaggtgg cctgactggc attgnattag 420
caaactcatc actagacatc gtactacacg acacgtacta ccgttgtagc ccacttccac 480
tatgtcctat caataggagc tggatttgcc atcataggaa ggcttcattc actgatttcc 540
ctattctcag gctacaccct agaccaaacc tacgccaaaa atcatttcac tatcataatn 600
cac   603

<210> 654
<211> 356
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (270)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<400> 654
ggttttttc ttcgcaggat ttttctgagc cttttaccac tccagcctag cccctacccc 60
ccaattagga gggcactggc ccccaacagg catcaccccg ctaaatcccc tagaagtccc 120

```
actcctaaac acatccgtat tactcgcatc aggagtatca atcacctgag ctcaccatag 180
tctaatagaa aacaaccnaa accaaataat tcaagcactg cttattacaa ttttactggg 240
tctctatttt accctcctac aaagcctcan agtacttcga gtctcccttc accatttccg 300
anggcatcta cggctcaaca ttttttgnag cccaggcttn cacgganttt cacgtc      356
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<210> 655
<211> 682
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (660)
<223> n equals a,t,g, or c

<400> 655
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gcgcaagtag gtctacaaga cgctacttcc cctatcatag aagagcttat cacctttcat 60
gatcacgccc tcataatcat tttccttatc tgcttcctag tcctgtatgc ccttttccta 120
acactcacaa caaaactaac taatactaac atctcagacg ctcaggaaat agaaaccgtc 180
tgaactatcc tgcccgccat catcctagtc ctcatcgccc tcccatccct acgcatcctt 240
tacataacag acgaggtcaa cgatccctcc cttaccatca aatcaattgg ccaccaatgg 300
tactgaacct acgagtacac cgactacggc ggactaatct tcaactccta catacttccc 360
ccattattcc tagaaccagg cgacctgcga ctccttgacg ttgacaatcg agtagtactc 420
ccgattgaag cccccattcg tataataatt acatcacaag acgtcttgca ctcatgagct 480
gtccccacat taggcttaaa aacagatgca attcccggac gtctaaacca aaccactttc 540
accgctacac gaccgggggt atactacggt caatgctctg aaatctgtgg agcaaaccac 600
agtttcatgc ccatcggcct agaattaatt cccctaaaaa tctttgaaat aagggcccgn 660
atttacccta tagcacccct ct                                          682
```

<210> 656
<211> 520
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (449)
<223> n equals a,t,g, or c

<220>
<221> misc feature

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<222> (483)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<400> 656
gagaagagct tatcaccttt catgatcacg ccctcataat cattttcctt atctgcttcc 60
tagtcctgta tgcccttttc ctaacactca caacaaaact aactaatact aacatctcag 120
acgctcagga aatagaaacc gtctgaacta tcctgcccgc catcatccta gtcctcatcg 180
ccctcccatc cctacgcatc ctttacataa cagacgaggt caacgatccc tcccttacca 240
tcaaatcaat tggcaccaat ggtactgaac ctacgagtac accgactacg gcggactaat 300
cttcaactcc tacatacttc ccccattatt cctagaacca ggcgacctgc gactccttga 360
cggtgacaat cgagtagtac tcccgattga agccccattc gtataataat tacatcacaa 420
gacgcttgna ctcaagagct gncccacant aggcttaaaa acaggatgca atttccgggc 480
ggntnaaaca aaacaatttt accggtacac gaacgggggg                       520

<210> 657
<211> 353
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (227)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<400> 657
gcactttctg ccaaagaaat ctctcctttt gcttctagca ccgactagat ttccttcagc 60
tgatgattga ctcccagaat tcgaaagaaa ctgagtccca caaagctctg tctgatctgg 120
agctcgcagc ccagtcaata atcttcattt ttgctggcta tgaaaccacc agcagtgttc 180
tttccttcac tttatatgaa ctggccactc accctgatgt ccagcanaaa ctgcaaaagg 240
gagattgatg cagttttgcc caataaggca ccacctacct atgatgccgt ggtacagatg 300
gattaccttg acatggtggt gaatgaaacc tcaaattatn cccgttggta tta         353

<210> 658
<211> 362
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c
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580

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<220>
<221> misc feature
<222> (203)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<400> 658
ggcanaggcc accaccatcc tgcattgccc actttacttg gccttctcct ggctctaact 60
caggcagcca agacccctcc cacttccttc tttggcctcc ctctcctcag gtatgaaaat 120
gaagctggcc ctgcgcccag gcgtttgaag gctgacatca acggcttgcg ccgagtcctg 180
ggatgagctg accctggcca ggnctgacct ggagntgcag atcgagggcc tgaatgaggn 240
```

581

```
agctagcctt acctgaagtg gnaccacgaa ggagggagat ggaaggagtt tcagcagcca 300
gttggccggn caagttcaat nttggagatg ggncgganca ccgggtgtgg gacctgaccc 360
gn                                                               362
```

<210> 659
<211> 447
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (147)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n quals a,t,g, or c

<220>
<221> misc feature

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<222> (204)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (247)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (447)
<223> n equals a,t,g, or c

<400> 659
gcttctncgc tccttctagg atctccgcct ggntcggccc gcctgcntcc actcctgcct 60
ctaccatgtc catcaaggtg acccagaagt cctacaaggn gtccacctct agcccccggg 120
```

```
ccttcagcag ccgctcctac acgaatnggc ccggttcccg catcaacncc tcgancttct 180
cccgaatagg cagcagcaac tntngcagtg gcctgggcgg cggctatngt ggggccagcn 240
gcatggnagg catcaccgca gttacggtca accagagcct gctgancccc cttntcctgg 300
aggtggaccc caacatccag gccgtgcgca cccaggagaa ggagcagatc aanaccctca 360
acaacaagtt tgcctcttca tagacaaggt aggttcctgg agcagcagaa caagatgttg 420
gaaaccaagt agagctcctt gagcnnn                                     447
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<210> 660
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (82)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (86)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (95)
<223> n equals a,t,g, or c

584

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<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (270)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c

<400> 660
ggnacgagcn aaggcctgca ccattctcct ccggggggct agcaaagaaa ttctntcgga 60
agtagaacgn gancctccag gntgcnatgc aagtntgtcg caatgttctc ctgggaccct 120
nagctggtgc naggggggtgg ggcntccaaa atggctgtgg cccatgcntt ganagaaaaa 180
tccanggcca tggactggtg tgggaacaat ggccatacag ggctgttgnc cagggcccta 240
naggttcatt cctcgtnacc ctggatccan aaactgtggg gggncagcca ccatt       295


<210> 661
<211> 212
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (210)
<223> n equals a,t,g, or c


<400> 661
gttggcgtgc tgggcctgga cctctggcag gtcaagtctg gcaccatctt tgacaacttc 60
ctcatcacca acgatgaggc atacgctgag gagtttggca acgagacgtg gggcgtaaca 120
aaggcagcag agaaacaaat gaaggacaaa caggacgagg agcagaggct taaggaggag 180
gaagaagaca agaaacgcaa agaggangan ga                                212


<210> 662
<211> 130
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (35)
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586

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<400> 662
aaaatacatt ganatacatn atgaaggcca ctatnatcct ccttctgntt gcacaacttt 60
cctgggctgg accntttcat cagacaggct tattagactc tatgctagaa catgaagctt 120
atnggatcng                                                        130

<210> 663
<211> 232
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (216)
<223> n equals a,t,g, or c

<400> 663
gnctcatnnn gactgttctg ncccgattgt tgctgctggt gttggtgaat ttgaagctgg 60
tatctccaag aatgggcaga cccgagagca tgcccttctg gcttacacac tgggtgtgaa 120
acaactaatt gtcggtgnna acaaaatgga ttccactgag ccaccctaca gccagaagag 180
atatgaggaa attgntaagg aagtnagcac ttaccnttaa gaaaaaactg gg            232

<210> 664
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<400> 664
agcggagacc cgcaagcgca agggnctgaa agaaggcatc cctgccctgg acaacttcct 60
ggacaaattg taggtggccc ctgcagcgcc tgccgccccg gggactcgca gcacccacag 120
caccacgtcc cgaattctca gacgacacct ggagactgtc ccgacactcc cctgagaggt 180
ttctggggcc cgctgcggtc acgaggggg gcccggttac ccaattcgtc ctatagtgat 240
natttacaat tcactggncg tcgttttaca agtcgtgtnt gagttttttt tntntt      296

<210> 665
<211> 376
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (282)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (336)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<400> 665
gggtcgaccc acgcgtccgg tttgccgcca gaacacaggt gtcgtgaaaa ctacccctaa 60
aagccaaaat gggaaaggaa aagactcata tcaacattgt cgtcattgga cacgtagatt 120
cgggcaagtc caccactact ggccatctga tctataaatg cggtggcatc gacaaaagaa 180
ccattgaaaa atttgagaag gaggctgctg agatgggaaa gggctccttc aagtatgcct 240
gggtcttgga taaactgaaa gctgagcgtg aacgtggtat cnccattgga tatctccttg 300
tggaaatttg agaccagcaa gtactatgtg actnnncatt gnatgccccc aggacacaga 360
gactttatcc agaaac   376

<210> 666
<211> 332
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (223)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (325)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

<400> 666
gccggatcct ncaatcttcg ctcctccaat ctccgctcct ccacccagtt caggaacccg 60
cgaccgctcg cagcgctctc ttgaccacta tgagcctcct gtccagccgc gcggcccgtg 120
tccccggtcc ttcgagctcc ttgtgcgcgc tgttggtgct gctgctgctg ctgacgcagc 180
cagggcccat cgccagcgct ggtcctgccg ntgctgtgtt ganagagctg cgttgccgtt 240
tgtttacaga ccacgcaagg agtccatccc aaaaatgatc agtaatntgc aagtgtncgc 300
cataggccca acagtgctcc aangngggaa gn                               332

<210> 667
<211> 361
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (140)
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591

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (188)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (295)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<400> 667
gtccttcgtg gagctaccgc tggccagcat tgtctcactt catgcctcca gcngcggtgg 60
taggctgcag acctcacccg naccgatcca gancactcct cccaaggaca cttgtagccc 120
gganctgntc atgtccttgn atccanacaa attgtgccga cgacgccatg gaccctggta 180
ctaaaganag agcttgttgc gcatttggaa ttgcaccatg cacgggcctg accttctggg 240
naccccagct gtgtaggcag aggacagggt gacaattttg tctttgcgca tggcntaatg 300
ccatctgtgg tcatgacagg ttgttcatca agtnnggant caggcaatga aggcngtggg 360
t   361

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<210> 668
<211> 518
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (274)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (358)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
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<220>
<221> misc feature
<222> (387)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<220>
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<221> misc feature
<222> (411)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (455)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (491)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (513)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (516)
<223> n equals a,t,g, or c

<400> 668
ggcacgagct cctcccagcg cttctacaag gagaacctgg gacagggctg gatgacccag 60
aagcatgagc ggatgaaggt ctatgtgccc actggcttct ctgccttccc ttttgagcta 120
ttgcacacgc ctgaaaagtg ggtgaggttc aagtacccaa agctcatctc ctattcctac 180
atggttcgtg ggggccactt tgcggccttt gaggagccgg agctgctcgc ccaggacatc 240
cgcaagttcc tgtcggtgct ggagcggcat gnanccaccc ctctcccccc gcttgccact 300
tccccccaca atgccctcca ggntttcttg ggggaagata accntttctg aggatgantt 360
tgcctccgtc ccntgnccag ttggganccc agttcaaccc ctnaaccttc nagttaattc 420
ccaaccccaa tcgtgtggta agcaangggt ttgangataa agatttaatc taaaaaaaaa 480
aaaaaaaatc nggggggggc ccgtaacaat tgnccnaa   518

<210> 669
<211> 545
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>

594

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<221> misc feature
<222> (11)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c


<400> 669
gcaagatnga nantaaccct cactaaaggg aacaaaagct ggagctccac cgcggtgncg 60
gccgctctag aactagtgga tcccccgggc tgcaggaatt cggcacgaga gatagaggag 120
gcttccctcc aagaggaccc cggggttccc gagggaaccc ctctggagga ggaaacgtcc 180
agcaccgagc tggagactgg cagtgtccca atccttcaat tggtgatttc tgctgtgatg 240
taattgtatg caggggttgt ggaaaccaga acttcgcctg gagaacagag tgcaaccagt 300
gtggtgatcg tggcagaggt ggccctggtg gcatgcnggg aggaagaggt ggcctcatgg 360
atcgtggtgg tcccggtgga atgttcagag gtggccgtgg tggagacaga ggtggcttcc 420
gtggtggccg gggcatggac cgaggtggct ttngtggagg aagacgaggt ggccctgggg 480
ggccctgga cctttgatgg aacagatggg aggaagaaga ggaggacgtg gaggacctgg 540
gaaaa                                                         545


<210> 670
<211> 386
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c
```

595

```
<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (285)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (379)
<223> n equals a,t,g, or c

<400> 670
ggcggactcg gtggctagcc gatgaggagg ccgcgggggg aaccggcccc cgggccccga 60
gaccgactga gggagcgacc tgcgcagggc ccggggagtc atgtaagggt ggcacccctg 120
gctacagtca acatcttgat ntcactgtgc caactgcggt gcctgccctt canagccctg 180
cactttgttt tntcccctgg cttcatcnac tacatcagtg gcacccctca tgctctgatt 240
gtgcgtcgct acctctccct gctggacacg gccgtggagc tgganctccc aagataccgg 300
ggtccccgcc ttccccgaan gcagtaagtg cccatctttc cccaacctct cntcaccgac 360
cgtgcccgct gcaagtacng tcacaa                                     386

<210> 671
<211> 436
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c

<400> 671
tggagacaga gcgagggttt gaggagttgc ccctgtgcag ctgccgcatg gaggcaccca 60
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agattgacag catcagcgag agggcggggc acaagtgcat ggccactgag agtgtggacg 120
gagagctgtc aggctgcaat gccgccatcc tcaagcggga gaccatgagg ccatccagcc 180
gtgtggccct gatggtgctc tgtgagaccc accgcgcccg catggtcaaa caccactgct 240
gcccgggctg cggctacttc tgcacggcgg gcaccttcct ggagtgccac cctgacttcc 300
gtgtggccca ccgcttccac aaggcctgtg tgtctcagct gaatgggatg gtcttctgtc 360
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<220>
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597

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<220>
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<220>
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601

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atacacantg gagcnntctg ccaggcaant tatgcgcaca gccatgaagn ataacctggg 120
tttngacctg agaacagctt cctatgntaa tgccattgng aangtcttca aagtgtacan 180
tgaagctggt gtgaccttca catngatgga ncatggctga cttncncact atcctcttca 240
catgtaactt ntgcagacct atcanaagtt tacatgtaac cacagnnntc cctttctctn 300
ctgactnatt aataatggct accattctta acangttaat ccaagtncag cncgtttaag 360
ggngnaaagg antcaaggtt nggcgggttc atntncaagn tgcgtgtggn agtagtaatt 420
ctnctgncan cagtgggncc attttggggt attttnnctn tnaantanan agggctantt 480
tnatcttgtt gttgcagnct ttnc                                      504

<210> 673
<211> 431
<212> DNA
<213> Homo sapiens

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<220>
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602

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<220>
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<220>
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<222> (422)
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aactagtgga acccccaggg ctgcaggaat tcgggcacga ggnagagcgg acnngtgagc 120
agtactgcgg cctcctctcc tctcctaacc tcgctctcgc ggcctagctt tacccgcccg 180
cctgctcggc gaccagaaca ccttccacca tgaccacctc agcaagttcc cacttaaata 240
aaggcatcaa gcaggtgtac atgtccctgc ctcagggtga gaaagtccag gccatgtata 300
tctggatcga tggtactgga gaaggactgc gctgcaagac ccggaccctg gacagtgagc 360
ccaagtgtgt ggaagagttg cctgagtgga atttcgatgg ctctagtact tnacagtctg 420
anggttccag t                                                    431

<210> 674
<211> 370
<212> DNA
<213> Homo sapiens

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<220>
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<222> (29)
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<221> misc feature
<222> (33)
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<220>
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<222> (81)
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<220>
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ggaaggtgct tttgcacttg ngtttaaaag tgttcatttt cccgggcaag cagntggcac 120
aaggcgaggt agccctctgt tgattggtgt acggagtgaa cataaacttt ctactgatca 180
cattcctata ctctacagaa caggcaaaga caagaaagga agctgcaatc tctctcgngt 240
ggacagcaca acctgccttn tcccggngga agaaaaagca gnggagtatt actttgcttc 300
tgatgcaann gctgcataga acacaccaat cgcgtcatct ttctggaaga tgatgatgtn 360
gcagcaagna                                                       370


<210> 675
<211> 363
<212> DNA
<213> Homo sapiens


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<222> (5)
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<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c


<220>
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<222> (50)
<223> n equals a,t,g, or c


<220>
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<222> (57)
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<220>
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<222> (65)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (99)
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<220>
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<220>
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<223> n equals a,t,g, or c


<220>
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<222> (215)
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<220>
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<222> (298)
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<222> (316)
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<220>
<221> misc feature
<222> (318)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (325)
<223> n equals a,t,g, or c


<220>
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<222> (329)
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cagtnccttc aagcctacaa gccccgagag aatgatgant tggcactgga gaaagccgac 120
gtggtgatgg tgactcacca gagcagtgca cggctggctg gagggcgtga ggctctcaga 180
cggggagcga ggctggtttc ctgtgacagc nntgngagtt catttccaac ccagaggtcc 240
gtgacacaga acctgaaggg aagcttcatc gagtgcaaga cttgccaaac tacagctngt 300
gggaacagca agcctnantt ttctnctgna gaaggagttt tcgtgagctg gaagaacaag 360
ttg                                                           363

<210> 676
<211> 441
<212> DNA
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606

<213> Homo sapiens

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<222> (214)
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<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<220>
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<222> (404)
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<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (441)
<223> n equals a,t,g, or c

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gctgcagaag gacaagcagg tctaccgggc cacgcaccgc ctgctgctgc tgggtgctgg 120
agaatctggt aaaagcacca ttgtgaagca gatgaggatc ctgcatgtta atgggtttaa 180
tggagacagt gagaaggcaa ccaaagtgca gganatcaaa aacaacctga aagaggcgat 240
tgaaaccatt gtggccgcca tgagcaacct ggtgcccccc gtggagctgg ccaaccccga 300
aaaccagttc agagtggact acatcctgag tgtgatgaac gtgcctgact ttnacttccc 360
tcccgaattc tatgagcatg ccaaggctct gtgggangat gaangagtgc gtncctgcta 420
cgaacgctcc aacgaatacn n   441

<210> 677
<211> 550
<212> DNA
<213> Homo sapiens

<220>
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<222> (217)
<223> n equals a,t,g, or c

<220>
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<222> (429)
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<220>
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<222> (482)
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<220>
<221> misc feature
<222> (484)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (487)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (523)
<223> n equals a,t,g, or c

<220>
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<222> (542)
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ggatcatcaa cgagcccacg gccgccgcca tcgcctacgg cctggacaga acgggcaagg 120
gggagcgcaa cgtgctcatc tttgacctgg gcggggggcac cttcgacgtg tccatcctga 180
cgatcgacga cggcatcttc gaggtgaagg ccacggncgg ggacacccac ctgggtgggg 240
aggactttga caacaggctg gtgaaccact tcgtggagga gttcaagaga aaacacaaga 300
aggacatcag ccagaacaag cgagccgtga ggcggctgcg caccgctgcg agagggccaa 360
gaggaccctg tcgtccagca cccaggccag cctggagatc gacttccttg ttttgagggc 420
atcgacttnt acacgttcat caccagggcg aaggttcgaa ggagctgtgc ttccgacctt 480
gntnccnaaa caccctgggg aaccccgtgg gaaaaaaggc ttnttgcgcc gaaaggccca 540
ancttgggac   550

<210> 678
<211> 435
<212> DNA

608

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<213> Homo sapiens

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<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
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<222> (134)
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<220>
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<220>
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<222> (376)
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<220>
<221> misc feature
<222> (385)
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<220>
<221> misc feature
<222> (401)
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<222> (423)
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<220>
<221> misc feature
<222> (434)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c


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gtaactattg gaatcaaggc tatggcaact atggatataa cagccaaggt tacggtggtt 120
atggaggata tggnctacac tggttacaac aactactatg gatatggtga ttatagcaac 180
cagcagagtg gttatgggaa ggtatccagg cgaggtggtc atcaaaatag ctacaaacca 240
tacttaaatt attccatttg caacttatcc ccaacaggtg gtgaagcata ttttnccatt 300
tgaaggttcc tttgagggg gctccgcccn ggncttaatt ggcnttccaa ctaaattttt 360
gggtatccag tccccnatgg gagtntgcgg tggggccccc nggagtttaa ttcggggtcc 420
ccntaaagga tttnn                                                 435


<210> 679
<211> 390
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (164)
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<220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c
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610

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<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (371)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<400> 679
cggacgcgtg ggctctggcc cctggtcctg tcctgttctc caacatggtg tgtctgaagt 60
tccctggaag ctcctgcatg gcagctctga cagtgacact gatggtgctg aactccccac 120
tggctttggc tggggacacc cgaccacgtt tcttggagca ggtnaaacat gaatgtcatt 180
tcttcaacgg gacggaacgg gtgcggttcc tggacanata cttctatcac caagaagaat 240
acgtgcgctt cgacagcgac gtggggggaat accgggcggt gacgganctg gggcggccta 300
actccgaata ctggaacagc cagaaagacn ccngggacag aagcgggccg cggtggacac 360
ctactgcaga nacactacgg ggttgggtgn                                390

<210> 680
<211> 343
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (18)
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<220>
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<222> (121)
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<220>
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<222> (122)
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<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<220>
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<222> (158)
<223> n equals a,t,g, or c

<220>
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<222> (160)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
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<220>
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<222> (197)
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<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (223)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
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<220>
<221> misc feature
<222> (272)
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<220>
<221> misc feature
<222> (278)
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<220>
<221> misc feature
<222> (280)
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<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (331)
<223> n equals a,t,g, or c

<400> 680
anngtcanac ngacagtnac cgtccggatt cccgggtcga cccacgcgtc cgtgaggtta 60
cagattatgc cattgccagg cgcatagtag atttgcattc aagaattgag gaatcaattg 120
nnaatatcta tnccctcgat gatatcagaa gatatctncn ctatgcaaga aagtntaaac 180
ccaagaattc caaagantca gnggacttca ttgtggagca atntaaacat ctccgcccgn 240
aagatgggtt ctggagtagc ccagtcttca tngagggntn cagttgcggc cncattgagg 300
gccttggatc cgtctctctt ggaagccaat ngctccgggt gcc                  343

<210> 681
<211> 523
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
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613

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<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
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<220>
<221> misc feature
<222> (72)
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<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (487)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (500)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (514)
<223> n equals a,t,g, or c

<400> 681
natcttccgt gacactnttg anggnacgcc cgcaggtacc cggtccggaa ttcccgggtc 60
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gacccacgcg tncgcccaat tttaccaatc tatcacccta tagaagagct aatgttagta 120
taagtaacat gaaaacattc ncctccgcat aagcctgcgt cagattaaaa cactgaactg 180
acaattaaca gcccaatatc tacaatcaac caacaagtca ttattaccct cactgtcaac 240
ccaacacagg catgctcata aggaaaggtt aaaaaaagta aaggaactc ggcaaatctt 300
accccgcctg tttaccaaaa acatcacctc tagcatcacc agtattagag gcaccgcctg 360
cccagtgaca catgtttaac ggncgcggta ccctaaccgt gcaaaggtag cataatcact 420
tggtccttaa ttagggacct gnatgaatgg ctccacgagg gtcagctggc tcttactttt 480
aaccagngaa attgacctgn cgngaagagg cggnatgaca cag                    523
```

```
<210> 682
<211> 713
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (583)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (595)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (605)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (626)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (633)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (640)
<223> n equals a,t,g, or c


<220>
<221> misc feature
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<222> (646)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (660)
<223> n equals a,t,g, or c


<400> 682
ggtcaaccca acacaggcat gctcataagg aaaggttaaa aaaagtaaaa ggaactcggc 60
aaatcttacc ccgcctgttt accaaaaaca tcacctctag catcaccagt attagaggca 120
ccgcctgccc agtgacacat gtttaacggc cgcggtaccc taaccgtgca aaggtagcat 180
aatcacttgt tccttaaata gggacctgta tgaatggctc cacgagggtt cagctgtctc 240
ttactttaa ccagtgaaat tgacctgccc gtgaagaggc gggcatgaca cagcaagacg 300
agaagaccct atggagcttt aatttattaa tgcaaacagt acctaacaaa cccacaggtc 360
ctaaactacc aaacctgcat taaaaatttc ggttggggcg acctcggagc agaacccaac 420
ctncgagcag tacatgctaa gacttcacca gtcaaagcga actactatac tcaattgatc 480
caataacttg accaacggaa caagttaccc tagggataac agcgcaatcc tattctagag 540
tccatatcaa caatagggtt tacgaacctc gatgtttgat cangacattc ccatngtgca 600
gcccnctatt taaaaggttc gttggntcac gantaaaggn cctacntgaa ctgagttcan 660
aaccggagta aattccaagg cgggtttta tctaccttaa aattcccccc tgg         713


<210> 683
<211> 289
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c


<400> 683
tccccntact aaagngaaca aaagctgnag ctccaccgcg gtggcggccg ctctagaact 60
agtggatccc ccnggctgcn tgaattcggc acgagcggca cgaggccctg cggggtgtac 120
accccccgtt gcggctcggg cctgctctgc tacccgcccc gaggggtgga gaagcccctg 180
cacacactga tgcacgggca aggcgtgtgc atggagctgg cgganatcga ggccatncan 240
gaaagcctgc anccctctga caaggacgag ggtgaccacc ccaacanca        289


<210> 684
<211> 464
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c


<400> 684
ggangagccc agccctggga ttttcaggtg gtttcatttg gtgaacagga ctgaacagag 60
agaactcacc atggaatttg ggctgagctg gctttttctt gtggctattt taaaaggtgt 120
```

```
ccagtgtgag gtgcaattgg tggagtctgg gggaggcttg gtacagcctg gggggtccct 180
gagactctcc tgtacagtct ctggattcac ctttcgcaac tatgccatga gttgggtccg 240
ccagggtcca gggaaggggc tggaatgggt ctcagcaatt gacggtagtg gttataacac 300
atactacgag aggtccctgc agggccgctt tagtgtctcc agagacaatt ccnagaacac 360
actatatctg caaatgaaca gcctgggagc cgaggacacg gccatctatt attgtgcgaa 420
gacagaacgt atgggtactg gctggtacgg acgaaatgac tact                  464
```

<210> 685
<211> 545
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (326)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (457)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (505)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (509)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (536)
<223> n equals a,t,g, or c

<400> 685
attgantccn ttananaccn cctttatacg actcactata gggaaagctg gtacgcctgc 60
aggtaccggt ccggaattcc cgggtcgacc cacgcgtccg daccgtcacc cctggagaga 120
cggcctccat ctcctgcagg tctagtcaga ccctcctgca tgtcaatgga cacaactatt 180
tggattggta catgcagaag ccagggcagc ctccacagct cgtggtctat aggggttcca 240
atcgggcctc cggggtccct gacaggttca gtggcggtgg atcaggcaca gattttacac 300
ttagaatcac cacggtggag gctgangatg ttggcgttta ttactgcatg caagctctac 360
aaagtccgta cacttttggc caggggacca agctggagat caaacgaact gtgggctgca 420
ccatctgnct tcatcttncc gncatctgat gaacanntga aatctggaac tgcctctggt 480
gggggcctgc tgaataactt ctatnccana gaggcccaaa gtaccagtgg aaaggnggga 540
taacg                                                            545

<210> 686
<211> 496
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (358)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (472)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (481)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (488)
<223> n equals a,t,g, or c

<400> 686
ctactaaagg gaacaaaagc tggagctcca ccgcggtggc ggccgctcta gaactagtgg 60
atcccccggg ctgcaggaat tcggcacgag cggctgggcg ctgaggatca gccgcttcct 120
gcctggattc cacagcttcg cgccgtgtac tgtcgcccca tccctgcgcg cccagcctgc 180
caagcagcgt gccccggttg caggcgtcat gcagcgggcg cgacccacgc tctgggccgc 240
tgcgctgact ctgctggtgc tgctccgcgg gccgccggtg gcgcgggctg gcgcgagctc 300
ggggggcttg ggtcccgtgg tgcgctgcga accgtgcgac gcgcgtgcac tggcccantg 360
cgcgccttcc gcccgccgtg tgcgccggaa cttggtgcgc caagccgggc ttgcggntgc 420
tgcctgacgt gcgcactgag cgaagggcca gccgtgcggn atctacaccg ancgctgtgg 480
nttccggnct tcgttg   496

<210> 687
<211> 476
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (7)

620

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<400> 687
gcncganacn aaccctcact aaagggaaca aaagctggag ctccaccgcg gtgcgnccgc 60
tctagaacta gtggatcccc cgggctgcag gaattcggca cgagattgat gacaccaata 120
tcacacgact gcagctggag acagagatcg aggctctcaa ggaggagctg ctcttcatga 180
agaagaacca cgaagaggaa gtaaaaggcc tacaagccca gattgccagc tctgggttga 240
ccgtggaggt agatgccccc aaatctcagg acctcgccaa gatcatggca gacatccggg 300
cccaatatga cgagctggct cggaagaacc gagaggagct agacaagtac tggtctcagc 360
agattgagga gagcaccaca gtggtcacca cacagtctgc tgaggttgga gctgctgaga 420
cgacgctcac agagctgaga cgtacagtcc agtccttgga gatcgacctg ggactt   476

<210> 688
<211> 483
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<400> 688
anantaaccc tcactaaagg gaacaaaagc tggagctcca ccgcggtgcg gccgctctag 60
aactagtgga tcccccgggc tgcaggaatt cggcacgagc aggttcccgc cggaagaag 120
cgaccaaagc gcctgaggac cggcaacatg gtgcggtcgg ggaataaggc agctgttgtg 180
ctgtgtatgg acgtgggctt taccatgagt aactccattc ctggtataga atccccattt 240
gaacaagcaa agaaggtgat aaccatgttt gtacagcgac aggtgtttgc tgagaacaag 300
gatgagattg ctttagtcct gtttggtaca gatggcactg acaatcccct ttctggtggg 360
gatcagtatc agaacatcac agtgcacaga catctgatgc taccagattt tgatttgctg 420
gaggacattg aaaagcaaaa tccaaccagg ttctcaacag ctgacttcc tgggatgcac 480
taa   483

<210> 689
<211> 339
<212> DNA

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<213> Homo sapiens

<220>
<221> misc feature
<222> (109)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (155)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c

<400> 689
aggcaggagg aagccgatcg aaaactcaga gaggaggaag agaagaggag gctaaaggaa 60
gagattgaaa ggcgaggagc agaagctgct gagaaacgcc agaagatgnc agaagatggc 120
ttgtcagatg acagnaaacc attcaagtgt ttcantccta aaaggttcat ctcttcaaga 180
```

```
tagaagagcg agcagatttt tgattaagtc tgtgcagaaa agcagtggtg ttcaantcga 240
cccttcaagc agcattagtn ttccaagttt gacagcagan tggagcatnt taccatggca 300
tttgagggga ccaaaagcag ccaaaacctt aaaaaaanna                        339
```

<210> 690
<211> 594
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<400> 690

```
gntgctttct ccaccagaag ggcacacttt catctaattt ggggtatcac tgagctgaag 60
acaaagagaa gggggagaaa acctagcaga ccaccatgtg ctatgggaag tgtgcacgat 120
gcatcggaca ttctctggtg gggctcgccc tcctgtgcat cgcggctaat attttgcttt 180
actttcccaa tggggaaaca aagtatgcct ccgaaaacca cctcagccgc ttcgtgtggt 240
tcttttctgg catcgtagga ggtggcctgc tgatgctcct gccagcattt gtcttcattg 300
ggctggaaca ggatgactgc tgtggctgct gtggccatga aaactgtggc aaacgatgtg 360
cgatgctttc ttctgtattg gctgctctca ttggaattgc aggatctggc tactgtgtca 420
ttgtggcagc ccttggctta gcagaaggac cactatgtct tgattccctc ggncagtgga 480
actacacctt tgccagcacc gagggccaag taccttctgg ataccttcac atggtccgag 540
tgcactgaac ccaacacatt ggggaatgga atggatctct ggtttctatc ctct       594
```

<210> 691
<211> 538
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<400> 691
ganganacna accctcacta aagggaacaa aagctggagc tccaccgcgg tgcgnccgct 60
ctagaactag tggatccccc gggctgcagg aattcggcac gagcgcatga ctttgtcttc 120
tccgcacgac tgttacagag gtctccagag ccttctctct cctgtgcaaa atggcaactc 180
ttaaggaaaa actcattgca ccagttgcgg aagaagaggc aacagttcca aacaataaga 240
tcactgtagt gggtgttgga caagttggta tggcgtgtgc tatcagcatt ctgggaaagt 300
ctctggctga tgaacttgct cttgtggatg ttttggaaga taagcttaaa ggagaaatga 360
tggatctgca gcatgggagc ttatttcttc agacacctaa aattttggca gataaagatt 420
attctgtgac cgccaattct aagattgtag tggtaactgc aggagtccgt cagcaagaag 480
gggagagtcg gctcaatctg gtgcagagaa atgttaatgt cttcaaattc attattcc   538

<210> 692
<211> 201
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (161)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c

<400> 692
gctcattgcc acgcgccccc gacgaccgcc cgacgtgcat tcccgattcc ttttggttcc 60
aagtccaata tggcaactct aaaggatcag ctgatttata atcttctaaa ggaagaacag 120
acccnccaga ataagattac agntgttggg gttggtgctg ntggnatggc ctgtgccatc 180
aanatcttaa tgaaggactt g   201

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<210> 693
<211> 589
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (424)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (491)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (551)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (571)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (572)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (576)
<223> n equals a,t,g, or c

<400> 693
nncaaaaagt acctaggtga cantatagaa ggtacgcctg caggtaccgg tccggaattc 60
ccggggttgt taacttgttt attgcagctt ataatggtta caaataaagc aatagcatca 120
caaatttcac aaataaagca ttttttttcac tgcattctag ttgtggtttg tccaaactca 180
tcaatgtatc ttatcatgtc tggatcgatc ctgcattaat gaacggccaa cgcgcgggga 240
gaggcggttt gcgtattggc tggcgtaata ncgaaaagcc cgcaccgatc gcccttccca 300
acagttgcgc ancctgaatg gcgaatggga cgcgccctgt ancggcgcat taancgcggc 360
gggtgtggtg gttaccncaa cgtgaccgct acacttgcca ncgccctaac gcccgctcct 420
ttcncttct tccctncct ttctcccca cgttccgccg ggtttncccc gtcaaactct 480
aaatccgggg ntcccctta agggttccca atttaattgc ttaacggcac ctccaacccc 540
aaaaaaactt naataagggg tgaatggttc nnctanttgg gccacccc      589
```

```
<210> 694
<211> 386
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (204)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (244)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (326)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c


<400> 694
ggcaaagcat ggggcagcga gtgtgagaaa tgccctctgc ctggcacaga ggccttcana 60
gagatctgcc ctgccggcca cggctacacc tacgcgagct ccgacatccg cctgtccatg 120
aggaaagccg aggangaaga actggcaang cccccaaggg agcaagggca gangagcagc 180
tgggcactgc ccgggccaac ananaagcag cccctccggg ttcgtcacgg acacctggct 240
tgangccggg accatccctg acaaggttga ctctcaagct ggccaggtca cgaccagtgt 300
cactcatgca cctgcctggg tcacanggaa atgccacaan cccacccaat gcctgaacag 360
ggaattgcnn aaaattccgg aanaaa                                     386


<210> 695
<211> 475
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (459)
<223> n equals a,t,g, or c


<220>
<221> misc feature
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<222> (463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (465)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c

<400> 695
ggttcacagc atatattggt ggattcttgt ccatagtgca tctgctttaa gaattaacga 60
aagcagtgtc aagacagtaa ggattcaaac catttgccaa aaatgagtct aagtgcattt 120
actctcttcc tggcattgat tggtggtacc agtggccagt actatgatta tgattttccc 180
ctatcaattt atgggcaatc atcaccaaac tgtgcaccag aatgtaactg ncctgaaagc 240
tacccaagtg ccatgtactg tgatgagctg aaattganaa gtgtaccaat ggtgcctcct 300
ggaatcaagt atctttacct taggaataac cagattgacc atattgatga aaaggccttt 360
gagaatgtaa ctgatctgca gtggctcatt ctagatcaca accttctaga aaactccaag 420
atnaaaggga gagttttctc taaattgaaa caactgaana agntnntata accac   475

<210> 696
<211> 444
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (410)
<223> n equals a,t,g, or c

<400> 696
tatcaagtgt actccaaaat ccaggcaaca aacacatggc tgtttctaag tagctgtaac 60
ggaaatgaaa cttctctttg ggactgcaag aactggcaat ggggtggact tacctgtgat 120
cactatgaag aagccaaaat tacctgctca gcccacaggg aacccagact ggttggaggg 180
gacattccct gttctggacg tgttgaagtg aagcatggtg acacgtgggg ctccatctgt 240
gattcagact tctctctgga agctgccagc gttctatgca gggaattaca gtgtggcaca 300
gttgtctcta tcctgggggg agctcacttt ggagagggaa tggacagatc tgggctgaag 360
aattccagtg ttgagggaca tgaatcccca tctttcatct tnccagtagn aaccccgccc 420
aaaaggaact tgtagccaca gcaa   444

<210> 697
<211> 411
<212> DNA

629

<213> Homo sapiens

<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (305)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (410)
<223> n equals a,t,g, or c

<400> 697
aacatggcgg gtgtggagga ggtagcggcc tccgggagcc acctgaatgg cgacctggat 60
ccagacgaca gggaagaagg agctgcctct acggctgagg aaanagccaa gaaaaaaaga 120
cgaaagaaga agaagagcaa agggccttct gcaggtaaag agagtttttat gttttcccag 180
tcccctccgg gaacggctga actgtttggc tcaggcccgt tgaggggggcc gggaccgggg 240
ccccagagcc ccgactagac tgattcttgg gcctgacagg gtggcaaagc cgggctatag 300
atcanggtgc acctgagctt tctctgatgt atgcccangc agatctccag gtattcagag 360
cacctgcttn cccancctgt tagtcttagt nacccaaccc tcctgtgcan a   411

<210> 698
<211> 135
<212> DNA
<213> Homo sapiens

630

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<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<400> 698
ggcgtgggtt tccgggaggg nacctgnggg gcccagaccc agcgcatccg gtgnagggtg 60
ccctncaact ggaagatgna tttcgagccg atttcaagta caaagtttta gaacttgggg 120
tgcgtgtgat taggg                                                 135

<210> 699
<211> 434
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<220>
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<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

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<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c

<400> 699
cgtacangag ctganggnga gcgcgcctgc aggtcgacac tagtggatcc aaagantgtc 60
ngcacagttt tctctcttgg agcatgcatg gaaggcctga atattttgct taacagactg 120
ttggggattt cattatatgc agagcagcct gcaaaaggag aggtgtggag cgaagatgtc 180
cgaaaactgg ctgttgttca tgaatctgaa ggattgttgg ggtacattta ctgtgatttt 240
tttcagcgag cagacaaacc acatcaggat tgccatttca ctatccgtgg aggcagacta 300
aaaggaagat gggagactat ncaactccca gttgtaagtt cttatgctgg aatcttcccc 360
gttcccgnna gggagttctc caactttggc naangcctgg gcatgatggg aaaacctttc 420
ccagganggg ggac                                                 434

<210> 700
<211> 435
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632

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<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c

<400> 700
gccgagcgca cgccttgccg ccgccccgca gaaatgcttc ggttacccac agtctttcgc 60
cagatgagac cggtgtccag ggtactggct cctcatctca ctcgggctta tgccaaanat 120
gtaaaatttg gtgcagatgc ccgagcctta atgcttcaag gtgtagacct tttagccgat 180
gctgtggccg ttacaatggg gccaaaggga agaacagtga ttattgagca gagttgggga 240
agtcccaaag taacaaaaga tggtgtgact gttgcaaagt caattgactt aaaagataaa 300
tacaagaaca ttggagctaa acttgttcaa gatgttgcca ataacacaaa tgaagaagct 360
ggggatggca ctaccactgc tactgtactg gcacgctcta tagccaagga aggcttcgag 420
aagattagca aaggt                                                  435

<210> 701
<211> 406
<212> DNA
<213> Homo sapiens

<400> 701
aaaatttggt gcagatgccc gagccttaat gcttcaaggt gtagaccttt tagccgatgc 60
tgtggccgtt acaatggggc caaagggaag aacagtgatt attgagcaga gttggggaag 120
tcccaaagta acaaaagatg gtgtgactgt tgcaaagtca attgacttaa agataaaata 180
caagaacatt ggagctaaac ttgttcaaga tgttgccaat aacacaaatg aagaagctgg 240
ggatggcact accactgcta ctgtactggc acgctctata gccaaggaag cttcgagaa 300
gattagcaaa ggtgctaatc cagtggaaat caggagaggt gtgatgttag ctgttgatgc 360
tgtaattgct gaacttaaaa agcagtctaa acctgtgacc acccct         406

<210> 702
<211> 266
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (203)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<400> 702
tgtgagttca agcgggtgcc gcagtgcccc agcgggaggg tctacgtgct gaagttcaag 60
gcagggtcca agcggctttt cttctggatg caggaaccca agacagacca ggatgaggag 120
cattgccgga aagtcaacga gttatctgga acaacccccc gatgcctggg gcactggggg 180
ccagcggaac agcggccacg aantctctgc gctangcggt tgaggtggcn tgcagagcnt 240
gctggggaaa cntgagccac agccag                                    266


<210> 703
<211> 244
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (194)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (216)
<223> n equals a,t,g, or c

<400> 703
tacctacgcc taatctactc cacctcaatc acactactcc ccatatctaa caacgtaaaa 60
ataaaatgac agtttgaaca tacaaaaccc accccattcc tccccacact catcgccctt 120
```

634

```
accacgctac tcctacctat ctcccctttt atactaataa tcttataaaa aaaaaaaaaa 180
aaaaaaaaaa aaangggggg gccgggnncc natttngccc aaaggggggg ggttttaaaa 240
ttca                                                                   244
```

<210> 704
<211> 462
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (162)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (186)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (189)
<223> n equals a,t,g, or c

<220>
<221> misc feature

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<222> (206)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (270)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (358)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c

<400> 704
gtaaganctaa agtgaccctc ggctgctgca ggggatctgc agcgnactgc agccatgggg 60
gcccacctgg tccggcgcta cctgggcgat gcctcggtgg ancccgaccc cctgcagatg 120
ccaaccttcc cgccagacta cggcttcccc gaacgcaagg ancgcganat ggtggccaca 180

```
cancangana tgatggacgc gcactnaagc tccanctgcg ggantactgc gcccaccaac 240
tcatccgggt gctcaattnc aaccttaaan cttcccccac ttccttggct tgcnaaccag 300
gaacgggaca aatnggaata ntnccaaaca ccccanaant tttnttnccc ttaaanantt 360
tttaaacgga aacgaagggt ntccccccccg gaaaaaaaac ngggnaaaa aaagggggaaa 420
tttttnccc cccccccgcc cgnggaaatt ttcccccccg tt                     462
```

<210> 705
<211> 436
<212> DNA
<213> Homo sapiens

<400> 705
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gaaggtcagc gccgtaatgg cgttcttggc gtcgggaccc tacctgaccc atcagcaaaa 60
ggtgttgcgg ctttataagc gggcgctacg ccacctcgag tcgtggtgcg tccagagaga 120
caaataccga tactttgctt gtttgatgag agcccggttt gaagaacata agaatgaaaa 180
ggatatggcg aaggccaccc agctgctgaa ggaggccgag gaagaattct ggtaccgtca 240
gcatccacag ccatacatct tccctgactc tcctgggggc acctcctatg agagatacga 300
ttgctacaag gtcccagaat ggtgcttaga tgactggcat ccttctgaga aggcaatgta 360
tcctgattac tttgccaaga gagaacagtg gaagaaactg cgggagggaa agctgggaac 420
gagaggttaa gcagct                                                 436
```

<210> 706
<211> 487
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (51)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

638

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<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (127)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (161)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (190)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
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639

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<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (371).
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (378)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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640

<220>
<221> misc feature
<222> (404)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (467)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (483)
<223> n equals a,t,g, or c

<400> 706
gccagaagaa cactgctgct cttggnggac gggnccagag gaatncagag ntaaaccttg 60
agngcctgcg tncgtgagaa ttcagcatgg aatgactcta ctatttnctg ggatttctgn 120
tnctggntgn aagattgcca cttgatgccg ccaaacgatt ncatgatgag ctgggnaatg 180
aaagaccttn tgcttacatg anggagcaca atcaattaaa tggctggtnt tctgatgaaa 240
atgactggaa tgaaaaactc tacccagtgt ggaagcggng agacatgang tgngaaaaac 300
tgctggaagg gaggcccgtg tgcaaggcgg tcctgaccag ngactnacca acccttggng 360
ggctcaaata naacattngc cggngaacct gatattccct aaangccaaa aggaagaagc 420
caatggcaac ataggctatg anaagaactg ganaaatgaa gctgggntaa acagctgaac 480
canaagg   487

<210> 707
<211> 414
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (214)
<223> n equals a,t,g, or c

<220>
<221> misc feature

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<222> (219)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c


<400> 707
ggttgttctc tggagcagcg ttcttttatc tccgtccgcc ttctctccta cctaagtgcg 60
tgccgccacc cgatggaaga ttcgatggac atggacatga gccccctgag gccccagaac 120
tatcttttcg gttgtgaact aaaggccgac aaagattatc actttaaggt ggataatnat 180
gaaaatgagc accagttatc tttaagaacg gtcngtttng gggctggtgc aaaggatgag 240
ttgcacattg ttgaagcaga ggcaatgaat tacgaaggca gtccaattaa agtaacactg 300
gcaactttga aaatgtctgt acagccaacg gtttttcccct tgggggcttt gaataacacc 360
accanggncc ttaaggttga antgtggttc agggccatgc cnattagngg acag      414
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<210> 708
<211> 360
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (343)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<400> 708
gaaaagccat ctttgcattg ttcctcatcc gcctccttgc tcgccgcagc cgcctccgcc 60
gcgcgcctcc tccgccgccg cggactccgg cagctttatc gccagagtcc ctgaactctc 120
gctttctttt taatcccctg catcggatca ccggcgtgcc ccaccatgtc agacgcagcc 180
gtagacacca gctccgaaat caccaccaag gacttaaagg agaagaagga agttgtggaa 240
gaggcagaaa tggaagagac gccctgctaa cgggatgcta atgaggnaat ggggagcagg 300
aggtgacatg aggtagccga gaagaggaag aagtngggag aanagagaga anaanaagtt 360

<210> 709
<211> 253
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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643

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<222> (80)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (189)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (199)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<400> 709
aaagctatnt cggtganact atataaggtn cgcctgcagg taccggtccg gaattcccgg 60
gtcgacccac gngtccgctn cggtggtgaa caagtctcca gcaccatatn tggtttgtct 120
ggcccaccat cccggcgngg accttttccg ttagcgtggg tgatattgtt cctgctcgag 180
gcncaaatng gtccttggna tctccttcca tctgcccatt aactctcgca agtgcctccg 240
ngaggaaatt cnc                                                    253

<210> 710
<211> 496
<212> DNA
<213> Homo sapiens

<220>
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<221> misc feature
<222> (11)
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<220>
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<223> n equals a,t,g, or c

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<220>
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<220>
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<222> (357)
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<220>
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<222> (371)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (376)
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<220>
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<222> (386)
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<220>
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<222> (404)
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<220>
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<222> (407)
<223> n equals a,t,g, or c


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<220>
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<222> (413)
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<220>
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<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (469)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (476)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (483)
<223> n equals a,t,g, or c

<400> 710
gaattcggca nagnaagagc tcctgacaca acctggagac tggacattat ttgtgccaac 60
caatgatgct tttaagggaa tgactagtga agaaaaagaa attctgatac gggacaaaaa 120
tgctcttcaa aacatcattc tttatcacct acaccaggag ttttcattgg aaaaggattt 180
gaacctggtg ttactaacat ttttaaagac cacacaaggn agcaaaatct ttctggaagg 240
aagtgaaatg gttacacttc tggtgaatgg atttggaaat ccaaaagant ctgacatcca 300
tggnccacca anggtggtaa tttcatgttg taggttaaac tncncttttc cagcagncac 360
accttttggg natggntcaa ctggtnggga tacttgatta tttnatncaa tnncctcccn 420
atttaaggtt ttttccgggg tgggcccctt caagggaatn ccngggctnt tttttnacac 480
ctnaattttt tccccc   496

<210> 711
<211> 461
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (3)
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<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (221)

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<400> 711
ntncaatgga anctccctgg agctttcacc gcggtgnccg gccgctctag aactagtgga 60
ttncccgggc tgcaggaatt cggcacgagg tcgcagacac tatgctgcct cccatggccc 120
tgcccagtgt atcttggatg ctgctttcct gcctcatgct gctgtctcag gttcaaggtg 180
aagaacccca gagggaactg ccctctgcac ggatccgctg ncccaaaggc tccaaggcct 240
atggctccca ctgctatgcc ttgttttttgt caccaaaatc ctggacagat gcagatctgg 300
cctgccagaa gcggccctct ggaaacctgg tgtctgngct cagtggggct gagggatcct 360
tcgngcctcc ctggtgaaga gcattggtaa cagctactca tacgtctgga ttgggctcca 420
tgaccccaca cagggcaccg agcccaatgg ataaaggttg g   461

<210> 712
<211> 392
<212> DNA
<213> Homo sapiens

<220>
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<222> (326)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<223> n equals a,t,g, or c

648

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<400> 712
cgcaaccttt ccaagggagt ggttgtgtga tcgccatctt agggaaaaga tgttctcgtc 60
cgtggcgcac ctggcgcggg cgaacccctt caacacgcca catctgcagc tggtgcacga 120
tggtctcggg gacctccgca gcagctcccc agggcccacg ggccagcccc gccgccctcg 180
caacctggca gccgccgccg tggaagagca gtatagctgt gactatggat ctggcagatt 240
ctttatcctt tgtggacttg gaggaattat tagctgtggc acaacacata cagcattggt 300
tcctctagat ctggttaaat gcagangcag gtttgttttt gcatgctgga cttagagcna 360
ttgaagcntg actgangtta agtattagna ta                               392

<210> 713
<211> 734
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (496)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (580)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (601)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (642)
<223> n equals a,t,g, or c

<220>
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```
<221> misc feature
<222> (655)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (690)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (703)
<223> n equals a,t,g, or c


<400> 713
gagaaaaagg tggaacggca gacggaactt aagcgcaaat ttgaacagat gaaacaagat 60
aggatcacca gataccaggg tgttaatctt tatgtgaaaa atcttgatga tggtattgat 120
gatgaacgtc tccggaaaga gttttctcca tttggtacaa tcactagtgc aaaggttatg 180
atggagggtg gtcgcagcaa agggtttggt tttgtatgtt tctcctcccc agaanaagcc 240
actaaagcag ttacanaaat gaacggtaga attgtggcca caaagccatt gtatgtagct 300
ttagctcagc gcaaagaaga gcgccaggct cacctcacta accagtatat gcagagaatg 360
gcaagtgtac ganctgttcc caaccctgta atcaaccct accagccagc acctccttca 420
ggttacttca tggcagctat cccacagact cagaacgtgc tgcatactat cctcctagcc 480
aaattgctca actaanacca agtcctcgct ggactgctca gggtgccata actcatccat 540
tccaaaatat gcccggtgct atccgcccag ctgctcctan aacaccattt agtactatga 600
naacagcttc ttctcagcaa catcttaatg cacagccaca anttacaatg cacancctgc 660
tgttcatgtt caaggtcagg aacctttgan tgcttccatg ttngcatctg cccccccca 720
aaacaaaacc aatt                                                  734


<210> 714
<211> 500
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c


<220>
<221> misc feature
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650

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<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (449)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (470)
<223> n equals a,t,g, or c

<400> 714
tantnnntta accctcacta anggcnacaa agnctngngc tncaccgcgg tggcggccgc 60
tctagcaact agtggatccc ccgggcctgt caggaattcg gcacgagctg ggacaagcga 120
gtttttaaac aaagtgactg aggcacagga agatggccag tcaacttctg aattgattgg 180
ccagtttggt gtcggtttct attccgcctt ccttgtagca gataaggtta ttgtcacttc 240
aaaacacaac aacgataccc agcacatctg ggagtctgac tccaatgaat tttctgtaat 300
tgctgaccca agaggaaaca ctctaggacg gggaacgaca attacccttg tcttaaaaga 360
agaagcatct gattaccttg aattggatac aattaaaaat ctcgtcaaaa aatattcaca 420
```

651

```
gttcataaac tttcctattt atgtatggng cagcaagact gaaactgttn aggagcccat 480
ggaggaagaa ggagcagcca                                                500
```

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<210> 715
<211> 491
<212> DNA
<213> Homo sapiens

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<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (116)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (271)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (285)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (326)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (410)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (474)
<223> n equals a,t,g, or c

<400> 715
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anaantacaa caagtgggaa acgatagagg cttggactca acaagtcgcc actganaatc 120
cagccctcat ctctcgcagt gttatcggaa ccacatttga gggacgcgct atttacctcc 180
tgaaggttgg caaagctgga caaaataagc ctgccatttt catggactgt gggtttccca 240
tgccaganan ttggatttct ccctgcattc ngccagtngg ttttntaaaa aangcggttc 300
ccttcctatn gacntttana ncccanttga caaacttcnc caacaattta aanttttatn 360
ttcccgccct gtggccccaa tattgaaggg caacttcnac cccgggaacn aaaacccaat 420
tntggaaaaa aaaacccccc cccccctgg tgggattctt gctttggttg ggnnccaccc 480
caaaaaaatt t                                                     491

<210> 716
<211> 331
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (242)
<223> n equals a,t,g, or c
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654

<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (326)
<223> n equals a,t,g, or c

<400> 716
gtaaagccgg ggcagcagcc ggcggtccgg gtgtaagcgg cgtgtgcgtg tgcaagagcc 60
gctacccggt gtgcggcagc gacggcacca cctacccgag cggctgccag ctgcgcgccg 120
ccagccagag ggccgagagc cgcgggggaga aggccatcac ccaggtcagc aagggcacct 180
gcgagcaagg tccttccata gtgacgcccc ccaaggacat ctggaatgtc actggtgccc 240
angtgtactt gagctgtgag gtcatcggaa tcccgacacc tgtcctcatc tggaacaagg 300
tanaaagggg tcactatgga nntcanagga c   331

<210> 717
<211> 486
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature

655

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<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (99)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c

<400> 717
tatcnttact aagggtacaa agttngggtc tnccaccngg tngaggaccg ctcctagcaa 60
ctagtggntc ccccgggnct gcaggaattc ggcacgagna tattagncag cggttattcg 120
gtgagcggtg gtggtttatt cttccgtgga gttaagggct ccgtggacat ctcaggtctt 180
cagggtcttc catctggaac tatataaagt tcagaaaaca tgtctcgaga tatgactcca 240
ggaccactat attttctcca gaaggtcgct tataccaagt tgaatatgcc atggaagcta 300
ttggacatgc aggcacctgt ttgggaattt tagcaaatga tggtgttttg cttgcagcag 360
agagacgcaa catccacaag cttcttgatg aagtcttttt ttctgaaaaa atttataaac 420
tcaatgagga catggcttgc agtgtggcag gcataacttt ctgatgctaa tgttctgact 480
aatgac                                                          486

<210> 718
<211> 479
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<400> 718
tcgacccacg cgtccgcagc ccacccatcc acgttgactc atcctcagag acgaatcgac 60
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656

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accctcaact cagatggata caccccctgag ccagacaaac cgcggccgat gcccatggac 120
acgagcgtgt atgagagccc ctacagcgac ccagaggagc tcaaggacaa gaagctcttc 180
ctgaagcgcg ataacctcct catagctgac attgaacttg gctgcggcaa ctttggctca 240
gtgcgccagg gcgtgtaccg catgcgcaag aagcagatcg acgtggccat caaggtgctg 300
aagcagggca cggagaaggc agacacggaa gagatgatgc gcgaggcgca gatcatgcac 360
cagctggaca accccctacat cgtgcggctc attggcgtct gccaggccga agccctcatg 420
ctggtcatgg agatgntggg ggcgggcgct gcacaagttc ctggtcggca agaaggaag 479
```

<210> 719
<211> 572
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (418)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (526)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (546)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (559)
<223> n equals a,t,g, or c

<400> 719
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gcgtgcccat gagaatgaga tcaccaaagt gcgaaaagtt actttcaatg gactgaacca 60
gatgattgtc atagaactgg gcaccaatcc gctgaagagc tcaggaattg aaaatggggc 120
```

```
tttccaggga atgaagaagc tctcctacat ccgcattgct gataccaata tcaccagcat 180
tcctcaaggt cttcctcctt cccttacgga attacatctt gatggcaaca aaatcagcag 240
agttgatgca gctagcctga aaggactgaa taatttggct aagttgggat tgagtttcaa 300
cagcatctct gctgttgaca atggctctct ggccaacacg cctcatctga gggagcttca 360
cttggacaac aacaagctta ccagagtacc tggtgggctg cagagcataa agtacatnca 420
nggtggctac cttcataaca accatatctc tgtagttgga tcaaagtgac ttctggccac 480
ctggacacaa ccacccaaaa ngnttcttaa ttccgggtgg gaagcntttt aacaaacccg 540
ggccangact ggggagaana cagccatcca cc                                572
```

<210> 720
<211> 487
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (447)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (459)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (467)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c

<400> 720
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ggntaaatca gaactcgaat ggccttgttt tcttgctctg gggctcttat gctcagaaga 60
```

```
agggcagtgc cattgatagg aagcggcacc atgtactaca gacggctcat ccctcccctt 120
tgtcagtgta tagagggttc tttggatgta gacacttttc aaagaccaat gagctgctgc 180
agaagtctgg caagaagccc attgactgga aggagctgtg atcatcagct gaggggtggc 240
ctttgagaag ctgctgttaa cgtatttgcc agttacgaag ttccactgaa aattttccta 300
ttaattctta agtactctgc ataaggggga aaagcttcca gaaagcagcc atgaaccagg 360
ctgtccagga atggancctg tatccaacca caaacaacaa aggctaccct ttgacccaaa 420
tgtctttctc tgcaacatgg cttcggncta aaatatgcnn aagacannat gagggccaat 480
acttaat                                                           487
```

<210> 721
<211> 464
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (222)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<220>
<221> misc feature

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<222> (443)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (448)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (455)
<223> n equals a,t,g, or c


<400> 721
cggacgcgtg ggcgtctgct ggggcacctg aaggagactt gggggcaccc gcgtcgtgcc 60
tcctgggttg tgaggagtcg ccgctgccgc cactgcctgt gcttcatgag gaagatgctc 120
gccgccgtct cccgcgtgct gtctggcgct tctcagaagc cggcaagcag agtgctggta 180
gcatcccgta attttgcaaa tgatgctaca tttgaaatta anaaatgtga ccttcaccgg 240
ctggaagaag ccctcctgtc acaacagtgc tcaccaaggg aagatgggct caaatactac 300
aggatgatgc anactgtacc cgaatggaat tgaaacagat cactgtntna acagaaaatt 360
atcntggttt ctgtccttgt gtgatgtcag aacttgctgt gtggcctgga gccgnatcac 420
cccaaacact ctccanctac ggntccgntt atttnccggg cttc              464


<210> 722
<211> 320
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (43)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (152)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (153)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

<400> 722
gttgcacagc anctgcacgc gccgtggctc cggatctctt cgnctttgca gcgtagcccg 60
agtcggtcag cgccggatga cctcagcagc catgtcgaag ccccatagtg aanccgggac 120
tgccttcatt cagacccagc anctgcacgc anncatggct gacacattcc tggagcacat 180
gngccgcctg gacattgatt caccacccat nacaggccgg aacactggca tcatctgtac 240
cattggccca gcttcccgat cangtggaga cggtnaagga natgattaaa gcctggaang 300
aatgtggntc gtctgaactt   320

<210> 723

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<211> 152
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (127)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<400> 723
gcccaccatg gctgcaatcc gaaagaagct ggtgatcgtt ggggatggtg cctgtgggaa 60
gacctgcctc ctcatcgtnt tcagcangga tcagtttccg gaggtctacg nccctactgt 120
cctttgngaa ctatattgcg cacattgngg cg                               152

<210> 724
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (514)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (553)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (559)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (569)
<223> n equals a,t,g, or c

<400> 724
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gctgctatgt tcaatataag aaatattgga aagacgctcg tcaccaggac ccaaggaacc 60
aaaattgcat ctgatggtct caagggtcgt gtgtttgaag tgagtcttgc tgatttgcag 120
aatgatgaag ttgcatttag aaaattcaag ctgattactg aagatgttca gggtaaaaac 180
tgcctgacta acttccatgg catggatctt acccgtgaca aaatgtgttc catggtcaaa 240
aaatggcaga caatgattga agctcacgtt gatgtcaaga ctaccgatgg ttacttgctt 300
cgtctgttct gtgttggttt tactaaaaaa cgcaacaatc agatacggaa gacctcttat 360
gctcagcacc aacaggtccg ccaaatccgg aagaagatga tggaaatcat gacccgagag 420
gtgcagacaa atgacttgaa agaagtggtc aataaattga ttncagacgc attggaaaag 480
acatagaaaa ggcttggcaa tctattatcc tctncatgat ggcttcgtta gaaaagtaaa 540
aatgctgaag aanccaagnt tgaatgggna aac                                573
```

<210> 725
<211> 403
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<400> 725
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gcttgaaant aaccctcact aaagggaaca aaagctggag ctccaccgcg gtgcggccgc 60
tctagaacta gtggatcccc cgggctgcag gaattcggca cgagtcctgg tccgcgccag 120
agcccagcgc gcctcgtcgc catgcctcgg aaaattgagg aaatcaagga cttcctgctc 180
acagcccgac gaaaggatgc caaatctgtc aagatcaaga aaaataagga caacgtgaag 240
tttaaagttc gatgcagcag atacctttac accctggtca tcactgacaa agagaaggca 300
gagaaactga agcagtccct gcccccggt ttggcagtga aggaactgaa atgaaccaga 360
cacactgatt ggaactgtat tatattaaaa tactaaaaat cct                    403
```

<210> 726
<211> 502
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

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<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c

<400> 726
cgcaagnncg anactaaccc tcactaaagg gaacaaaagc tggagctcca ccgcggtgcg 60
gccgctctag aactagtgga tcccccgggc tgcaggaatt cggcacgaga gccatcaggt 120
aagccaagat gggtgcatac aagtacatcc aggagctatg gagaaagaag cagtctgatg 180
tcatgcgctt tcttctgagg gtccgctgct ggcagtaccg ccagctctct gctctccaca 240
gggctccccg ccccanccgg cctgataaag cgcgccgact nggctacaag gccaagcaag 300
gttacgttat atataggatt cgtgttcgac gtggtggccg aaaacgccca gttcctaagg 360
gtgcaattac ggcaagcctn tccatcatgg ngttaaccag ctaaagtttg ctcgaagcct 420
```

```
tcagtccntt gcagaggagc gagctggacg ccactntggg gctctgagag tcctgaattc 480
ttactgggtt ggtgaagatt cc                                           502
```

<210> 727
<211> 361
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (318)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<400> 727
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ggcacgagcg aacgcgnaga gcacgccatg aaggcctcgg gcacgctacg agagtacaag 60
gtagtgggtc gctgcctgcc cacccccaaa tgccacacgc cgcccctcta ccgcatgcga 120
atctttgcgc ctaatcatgt cgtcgccaag tcccgcttct ggtactttgt atctcagtta 180
aagaagatga agaagtcttc aggggagatt gtctactgtg ggcaggtgtt tgagaagtcc 240
cccctgcggg tgaagaactt cgggatctgg ctgcgctatg actcccggag cggcacccac 300
aacatgtanc gggaatancg ggacctgacc aacgcaggcg ctgtcaacca gtgtaacggn 360
g                                                                 361
```

<210> 728
<211> 401
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c

665

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<220>
<221> misc feature
<222> (234)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (251)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<400> 728
gaagangctc gcctctagtg tcctccgctg tggcaagaag aagtctggtt agaccccaat 60
gagaccaatg aaatcgccaa tgccaactcc cgtcagcaga tccggaagct catcaaagat 120
gggctgatca tccgcaagcc tgtgacggtc cattcccggg ctcgatgccg gaaaaacacc 180
ttggcccgcc ggaaaggcan gcacatgggc atagttagcg gaaaggtaca gccnatgccc 240
gaatgccaaa naaggtcaca tggattaaga aaatgaagat tttgcgcccg ctgctcaaaa 300
aatacgtgaa tcttaaaana tcgatcgcca cntntttcac agcctgttcc taaagttaan 360
ggaatttttt caaaaacaac cgattctcnt ggaacacttc c                    401

<210> 729
<211> 530
<212> DNA
<213> Homo sapiens

<220>
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<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (527)
<223> n equals a,t,g, or c

<400> 729
gcacagngan ancnaaccct cactaaaggg aacaaaagct ggagctccac cgcggtgcgn 60
ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagcc gccatcttcc 120
agtaattcgc caaaatgacg aacacaaagg gaaagaggag aggcacccga tatatgttct 180
ctaggccttt tagaaaacat ggagttgttc ctttggccac atatatgcga atctataaga 240
aaggtgatat tgtagacatc aagggaatgg gtactgttca aaaaggaatg ccccacaagt 300
gttaccatgg caaaactgga agagtctaca atgttaccca gcatgctgtt ggcattgttg 360
taaacaaaca agttaagggc aagattcttg ccaagagaat taatgtgcgt attgagcaca 420
ttaagcactc taagagccga gatagcttcc tgaaacgtgt gaaggaaaat gatcagaaaa 480
agaaagaagc caaagagaaa ggtacctggg ttcaactaaa gcgccancct   530

<210> 730
<211> 375
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>

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<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (181)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (190)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (206)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (269)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (333)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (367)
<223> n equals a,t,g, or c

<400> 730
gggtggttgc tgccgaaatg ggcaagttca tgnaaccaag aaagtggtgc ttgtnctggc 60
tggacgctac tccggacgca aagctgntca tcgtaanaga acattgaatg ntggcacctc 120
naanngcccc tacagccatg cnctggtggc tgggaattga accgctaccc ccgcaaatga 180
ncngctgccn tggggcanga agaagntcgc caggaggtca aagatatant cttttgtgaa 240
ngtgtgtnac tacaatcacc tnatgcccnc aaggtactct gtgngatatt cccccttgggg 300
caaagctgta cgttcattag gntgtcttcc ganattcctg gctcttaaac gctnggcccg 360
aaggagnccc aggtc   375

<210> 731
<211> 207
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (177)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (187)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (201)
<223> n equals a,t,g, or c

<220>
<221> misc featur
<222> (207)
<223> n equals a,t,g, or c

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<400> 731
gcgccgctgc gaagggagcc gccgccatgt ctgcgcatct gcaatggatg gtcgtgcgga 60
actgctccag tttcctgatc aagaggaata agcagaccta cagcactgag cccaataact 120
tgaaggcccg caattccttc cgntacaacg gactgattca ccgcaagact gtgggcntgg 180
agccggnagc cgacggcaaa ngtgtcn                                   207


<210> 732
<211> 702
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (620)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (628)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (655)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (686)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (690)
<223> n equals a,t,g, or c


<400> 732
ggcagaatgn ctcccgcaaa gaagggtggc gagaagaaaa agggccgttc tgccatcaac 60
gaagtggtaa cccgagaata caccatcaac attcacaagc gcatccatgg agtgggcttc 120
aagaagcgtg cacctcgggc actcaaagag attcggaaat ttgccatgaa ggagatggga 180
actccagatg tgcgcattga caccaggctc aacaaagctg tctgggccaa aggaataagg 240
aatgtgccat accgaatccg tgtgcggctg tccagaaaac gtaatgagga tgaagattca 300
ccaaataagc tatatacttt ggttacctat gtacctgtta ccactttcaa aaatctacag 360
acagtcaatg tggatgagaa ctaatcgctg atcgtcagat caaataaagt tataaaattg 420
caaaaaaaaa aaaaagggc ggccgctcta gaggatccaa gcttacgtac gcgtgcatgc 480
gacgtcatag ctcttctata gtgtcaccta aattcaattc actgccgtcg gtttacaacg 540
```

```
tcgtgactgg gaaaaccctg cgttacccaa cttaatcgcc ttgcagcaca tccccttcg 600
ccagctgcgt aataacgaan aggcccgnac cgatcgcctt tccacagttg cgcancctga 660
atggcgaatg gacgcgcctt taccgngcan taagcgccgc gg               702
```

<210> 733
<211> 441
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (99)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (101)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (152)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<220>
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (212)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<400> 733
naattaacccc tcactaaagg gngcaaaagc tggtgctcca ccgcggtgcg accgctctag 60
anctagtggt tcccccgggc tgcaggattt cggcacganc ncgtgcagat tcgagcanag 120
gagcgnaagg gaacgtcatc gtttggaaag cntcgcaata agacgcacac gttgtgccgc 180
cgctntggct ctaaggccta ccaccttcag angtcgacct gtggcaaatt tggctaccct 240
gccaagcgca agagaaagtn taactggagt gccaaggcta aaagacgaaa taccaccgga 300
actggtcgan tgaggcacct aaaatttgta taccgcagat tcaggcatgg tttccntgaa 360
ggaacaacac ctaaacccaa gagggcagct gttgcagcat ccagttcatc ttaagattgt 420
caacgattag tcatgcaata a   441

<210> 734
<211> 379
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (324)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<400> 734
ggccgcagaa gcgagatgac gaagggaacg tcatcgtttg gnaagcgtcg caataagacg 60
cacacgttgt gccgccgctg tggctctaag gcctaccacc ttcagaagtc gacctgtggc 120
aaatgtggct accctgccaa gcgcaagaga aagtataact ggagtgccaa ggctaaaaga 180
cgaaatacca ccggaactgg tcgaatgagg cacctaaaaa ttgtataccg cagattcagg 240
catggattcc gtgaaggaac aacacctaaa cccaagaggg cagctgttgc agcattccag 300
ttcatcttta agaatgtcaa cgnntttagt catgcaataa antgtnctgg ggttttaaaa 360
aattaaaaga aaagnaaaa 379

<210> 735
<211> 187
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (177)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c

```
<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<400> 735
gcgggatcgt cggtaaatac gggacccgct atggggcctc cctccggaaa atggtgaaga 60
aaattgaaat cagccagcac gccaagtaca cttgctcttt ctgtggcaaa accaagatga 120
agagacgagc tgtggggatc tggcactgtg gttcctgcat gaagacagtg gntggnngng 180
cctgnac                                                        187

<210> 736
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (371)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (479)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (490)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (519)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (553)
<223> n equals a,t,g, or c

<400> 736
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tcgacccacg cgtccgccca cgctccggcc tcagccctac cagcactggt catgtctaaa 60
ggtcatcgta ttgaggaagt tcctgaactt cttntggtag ttgaagataa agttgaaggc 120
tacaagaaga ccaaggaagc tgttttgctc cttaagaaac ttaaagcctg ggaatgatat 180
caaaaaggtc tatgcctctc agcgaatgag agctgggcaa aggcaaaatg gagaaaccgt 240
cgccgtatcc agcgcagggc ccgtgcatca tctataatga ggataatggt atcatcaagg 300
ccttccagaa acatccctgg aattactctg cttnaatgtn aagcaagctg aaacattttg 360
naagcttgct ncctggtggg gcatgtgggg acgtttncgg cattgggang gaaatggctt 420
ttccgggant ttaganggan tgtnacgggc antgggcgta aagcgntttc cctccaagng 480
ttaactacan tcttcccagg caccaagatg gattaatana gatcttggca gaatctggaa 540
aagcccagag gtnccaaggg cccttcgggc accagc                          576
```

<210> 737
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (243)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (254)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c

<400> 737
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gctccgncat ggcgtgtgct cgcccactga tatcggtgta ctccgaaaag ggggagtcat 60
ctggcaaaaa tgtcactttg cctgctgtat tcaaggctcc tattcgacca gatattgtga 120
actttgttca caccaacttg cgcaaaaaca acagacagcc ctatgctgtc agtgaattag 180
caggtcatca gactagtgct gagtcttggg gtactggcag agctgtggct cgaattccca 240
```

```
ganttcgagg tggngggact naccgntctg gccanggtgc ttttggaaac atgtgtc      297
```

```
<210> 738
<211> 354
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (84)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (98)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (329)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<400> 738
gcgagaatga agactattct cagcantcag actgtcgaca ttccagaaaa tgtcgacatt 60
actctgaagg gacncacagn tatngtgaag ggccccanag gaaccctgcg gagggacttn 120
aatcacatca atgtataact cagccttntt ggaaagaaaa aaaagaggct ccgggttgac 180
aaatggtggg gtnacagaaa ggaactggct accgttcgga ctatttgtag tcatgtacag 240
aacatgatca agggtgttac actgggcttc cgttacaaga tgaggnctgt gtatgctcac 300
ttncccatca acgttgttat ccaagagant gggtctattg ttgaaatcca nant   354

<210> 739
<211> 504
<212> DNA
<213> Homo sapiens

<400> 739
ccgccatcat gggtcgcatg catgctcccg ggaagggcct gtcccagtcg gctttaccct 60
atcgacgcag cgtccccact tggttgaagt tgacatctga cgacgtgaag gagcagatt 120
acaaactggc caagaagggc cttactcctt cacagatcgg tgtaatcctg agagattcac 180
atggtgttgc acaagtacgt tttgtgacag gcaataaaat tttaagaatt cttaagtcta 240
agggacttgc tcctgatctt cctgaagatc tctaccattt aattaagaaa gcagttgctg 300
ttcgaaagca tcttgagagg aacagaaagg ataaggatgc taaattccgt ctgattctaa 360
tagagagccg gattcaccgt ttggctcgat attataagac caagcgagtc ctccctccca 420
attggaaata tgaatcatct acagcctctg ccctggtcgc ataaatttgt ctgtgtactc 480
aagcaataaa atgattgttt aact   504

<210> 740
<211> 399
<212> DNA
<213> Homo sapiens

<400> 740

679

```
ggacccgcca acatgggccg cgttcgcacc aaaaccgtga agaaggcggc ccgggtcatc 60
atagaaaagt actacacgcg cctgggcaac gacttccaca cgaacaagcg cgtgtgcgag 120
gagatcgcca ttatccccag caaaaagctc cgcaacaaga tagcaggtta cgtcacgcat 180
ctgatgaagc gaattcagag aggcccagta agaggtatct ccatcaagct gcaggaggag 240
gagagagaaa ggagagacaa ttatgttcct gaggtctcag ccttggatca ggagattatt 300
gaagtagatc ctgacactaa ggaaatgctg aagcttttgg acttcggcag tctgtccaac 360
cttcagtcac tcagcctaca gttgggatga tttcaaaac            399
```

<210> 741
<211> 431
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (393)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c

<400> 741
```
aaacaacggt cgtgccaaaa agggccgcgg ccatgtgcag cccattcgct gcacgaactg 60
cgcccggtgc gtgcccaagg ataaggccat caagaagttt gtcattcgga acattgtaga 120
agccgctgct gtcagggaca tatctgaagc aagcgtcttc gacgcctacg tgcttcccaa 180
gctctatgtc aagctgcatt attgcgtgac tgtgccatcc atagcaaggt tgttaggaat 240
cgatcccgct aagcccggaa ggaccgaaca cccccaccac gattcagacc tgctggcgct 300
gcaccttcga cctccaccaa agcccatgta aagangccgt ttttgtaagg acggaaggaa 360
aattaccttg gaaaaataaa atggaagttg tantttaaa aaaaaaaaaa aaacccnagg 420
ggggncccgt c                                        431
```

<210> 742
<211> 357
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (178)

```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (273)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<400> 742
gtgcagcggt tcattaaaat cgatggcaag gtccgaactg atataaccta ccctgctgga 60
ttcatggatg tcatcagcat tgacaagacg ggagagaatt tccgtctgat ctatgacacc 120
aagggtcgct ttgctgtaca tcgtattaca cctgaggagg ccaagtacaa gttgtgcnaa 180
gtgagaaaga tctttgtggg cacaaaagga atccctcatc tggtgactca tgatgcccgn 240
accatccgct accccgatcc cctcatcaag gtnaatgatc cattcatatt gatttanaga 300
ctggcaagat tactgatttc atcnatttcg acactggtaa cctgtgtatg gnnactg   357

<210> 743
<211> 249
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
```

```
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (221)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c


<400> 743
ggggcggtat gccgccaaac gcttccgcaa agctcagtgt cncattgtgg agcgcctcac 60
taactccatg atgatgnacg ggcgcaacaa cggcaagaag ctcatgactg tgcgnatcgt 120
cnagcatgcc ttcgagatca tacgcctgct cacaggcnaa gaaccctctg caggtcctgg 180
tgaacgccat catcaacatn ggtccccggg aagantccac ncgcattggg cgcgccggga 240
ctgttgana                                                        249


<210> 744
<211> 383
<212> DNA
<213> Homo sapiens
```

```
<400> 744
gaagaattgc atcgtgctca tcgacagcac accgtaccga cagtggtacg agtcccacta 60
tgcgctgccc ctgggccgca agaagggagc caagctgact cctgaggaag aagagatttt 120
aaacaaaaaa cgatctaaaa aaattcagaa gaaatatgat gaaaggaaaa agaatgccaa 180
aatcagcagt ctcctggagg agcagttcca gcagggcaag cttcttgcgt gcatcgcttc 240
aaggccggga cagtgtggcc gagcagatgg ctatgtgcta gagggcaaag agttggagtt 300
ctatcttagg aaaatcaagg cccgcaaagg caaataaatc cttgttttgt cttcacccat 360
gtaataaagg tgtttattgg ttt                                         383
```

```
<210> 745
<211> 452
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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683

<400> 745
gcgcacgatg cctggagtta ctgtaaaaga cgtgaaccag caggagttcg tcagagctct 60
ggcagccttc ctcaaaaagt ccgggaagct gaaagtcccc gaatgggtgg ataccgtcaa 120
gctggccaag cacaaagagc ttgctcccta cgatgagaac tggttctaca cgcgagctgc 180
ttccacagcg cggcacctgt acctccgggg tggcgctggg gttggctcca tgaccaagat 240
ctatggggga cgtcagagaa acggcgtcat gcccagccac ttcagccgag gctccaagag 300
tgtggcccgc cggntcctcc aagccctngg aggngctgaa aatggtggaa anggaccaag 360
atggcggccc gcaaactgac acctcaggga caaagagatc tgnacagaat cgccgnacag 420
gtggcagcnt gccancaaag aagcattaga nc   452

<210> 746
<211> 114
<212> DNA
<213> Homo sapiens

684

<223> n equals a,t,g, or c

<400> 746
tgcatgctgg ngctggtcct gnccttgctg tcctccagct ctgctgagga gtacntgggc 60
ctgtctgcaa accaatgtgc cgtgncagcc aaggacangg tgnactgtgg ctac   114

<210> 747
<211> 165
<212> DNA
<213> Homo sapiens

<400> 747
ggcacagcca cccagggcct gagtcctgtc cacaccccag gtgacggccg gctccacaag 60
gcagtgagcg tgggcccccg ggtgcacatc attgaggagc tgcagatctt ctcatcggga 120
cagcccgtgg cagaatctgc tcctgggaca cccacagggg ggctg   165

<210> 748
<211> 583
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (291)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (387)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (458)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (537)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (541)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (543)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (546)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (580)
<223> n equals a,t,g, or c

<400> 748
ggctagaaga tggttttgga gagcacccct tttaccactg cctggntgca gaagtgccga 60
aagagcactg gactccggaa ggacacagca ttgttggttt tgccatgtac tattttacct 120
atgacccgtg gattggcaag ttattgtatc ttgaggactt cttcgtgatg agtgattata 180
gaggctttgg cataggatca gaaattctga agaatctaag ccaggttgca atgaggtgtc 240
gctgcagcag catgcacttt tttggtagca gaatggaatg aaccattcat naacttctat 300
aaaagaagag gtgcttctga tctgtccagt gaagaaggtt ngagacttgt taagaatcga 360
caaggagtct tgctaaaaat ggcaacntag gagtgaggaa tgcttgctgt agatgacaac 420
ctccattcta ttttagaata aaattcccca actttctntt gnttttctat gctggttggn 480
agtgaaatta atttaaatga gcacccattt caaaagcttt aattaccaag tgggcgnttg 540
ntnccntgtt ttgaaaattg aaggtcttgt tttaaaaggn ggc                   583

<210> 749
<211> 419
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c
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```
<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (419)
<223> n equals a,t,g, or c
```

687

```
<400> 749
acncggaggc ttcttnatta cggncgggnn tgatgaggga aagctggtga cgcctgcagg 60
tgaccggtcc ggaattcccg ggtcgaccca cgcgtccggg cgtgatgtct cacagaaagt 120
tctccgctcc cagacatggg tccctcggct tcctgcctcg gaagcgcana gcaggcatcg 180
tgggaaggtg aagagcttcc ctaaggatga cccgtccaag ccggtccacc tcacagcctt 240
cctgggatac aaggctggca tgactcacat cgtgcgggaa gtcgacaggc cgggatccaa 300
ggtgaacaag aaggagggtg gtggaggctg tgaccattgt anagacacca nccatggtgg 360
tttgtgggca ttgttngcta cgttggaaaa ccctcgangg ctccggaact tcaagaatn 419

<210> 750
<211> 507
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (499)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c

<400> 750
ggccgaacat ggagatcaag attatatctg gcactgcatt gatctcttct tagatttcat 60
tactgtcttc agaaaactca tgatgatcct ggccatgaat gaaaaggata agaagaaaga 120
gaagaaatga agtgaccatc cagcctttcc caattagact tcctctcctt ccacccctca 180
tttccttttt gcacacatta caggtggtgt gttctgtgat aatgaaaagc atcagaaaag 240
cttttgtact ttgtggtttc ctctattttg aattttttga tcaaaaaact gattagcaga 300
atatagtttg gagtttggct tcatcttcct ggggttcccc tcactccctt ttttggcaac 360
cccatctgta gcctcttcct ctactcaggc agtcgacccg ccacgatgag aagtgggacc 420
agcagagggc gccaacttca ggagcccgct ttnccaccca gcttcattca cccantggac 480
ctgaactgtt tgggtananc ccnccgg                                    507

<210> 751
```

```
<211> 435
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c

<220>
<221> misc feature
```

```
<222> (199)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (226)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (243)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (295)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (331)
```

```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c

<400> 751
nactggaagt nctccgggag aanggatctc nacngcggtg ccggacgctc tagaactagt 60
ggatcccccg ggctgcaggt agcctgagct tagctcagcg ccggggcttn accaagacct 120
acactgttgg ctgngaggaa tgcacagtgg ntccctgntt atccatcccc tgcaaactgc 180
agagtggcac tcattgctng tggacggacc agctnctnca aggctntgaa aagggcttnc 240
agncccgtca ccttgcntgc ctgcctcggg agccagggct gggcacctgg cagtncctgc 300
ggtcccagat agcctgaata ntgnccggag nggaagctga agcctgcaca gtgtncaccc 360
tgntnccact cccatctttc tttcggacaa tgaaataaag agntaccacc cagcaaaaan 420
aaaaaaaaaa acctg                                                  435

<210> 752
<211> 591
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (345)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (407)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (556)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (570)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (572)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (579)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (586)
<223> n equals a,t,g, or c

<400> 752
gcggcacgag gcgcccagag agacaccaga gaacccacca tggcccccctt tgagcccctg 60
gcttctggca tcctgttgtt gctgtggctg atagccccca gcagggcctg cacctgtgtc 120
ccaccccacc cacagacggc cttctgcaat tccgacctcg tcatcagggc caagttcgtg 180
gggacaccag aagtnaacca gaccacctta taccagcgtt atgagatcaa gatgaccaan 240
atgtataaag ggttccaagc cttaggggat gccgctgaca tccggttcgt ctacaccccc 300
gccatggaga gtgtctgcng atactttcac aggtcccaca accgnagcga ggagtttctc 360
attgntggaa aactgcagga tggacttttg cacatcacta cctgcanttt tgtggctccc 420
tggaacagcc tgagcttagc tcagcgccgg gncttnacca agacctacac tgttggctgn 480
gaggaaatgc acaagtgctt ccctgtttat ccatcccctg caaactgcag agtgggcact 540
cattgcttgt aggacngacc agctcctacn angctcttna aaaggncttt c          591

<210> 753
<211> 547
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (454)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (512)
<223> n equals a,t,g, or c
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<400> 753
aagcacttgt ccagatgagc agtgtgtgaa ttctcctgga tcttaccagt gcgttccctg 60
cacagaagga ttccgaggct ggaatggaca gtgccttgat gtggacgagt gcctggaacc 120
aaacgtctgc gcaaatggtg attgttccaa ccttgaaggc tcctacatgt gttcatgcca 180
caaaggctat acccggactc cggaccacaa gcactgtaga gatattgatg aatgtcagca 240
agggaatcta tgtgtaaacg ggcagtgcaa aaataccgag ggctccttca ggtgcactgt 300
ggacaggggt taccagctgt cggcagctaa agaccagttt gaagacattg atgaatgcca 360
caccgtcatc tctgttgctc atgggcatgc aagaacactg aagctctttt ccatgtgttt 420
tttgaccang gttacagaac atctgggctt gganacactg tgaaaaattt caatgaatgc 480
ttggaagana aaatttttgc canaaaagaa antgctttat actgcagggt cctatgatgt 540
cttgtcc                                                           547


<210> 754
<211> 384
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c


<400> 754
gctcggctcc agcgccatgg cgccctccag gaagttcttc gttgggggaa actggaagat 60
gaacgggcgg aagcagagtc tgggggagct catcggcact ctgaacgcgg ccaaggtgcc 120
ggccgacacc gaggtggttt gtgctccccc tactgcctat atcgacttcg cccggcagaa 180
gctagatccc aagattgctg tggctgcgca gaactgctac aaagtgacta atggggcttt 240
tactggggag atcagccctg gcatgatcaa agactgcgga ccacgtgggt ggtcctgggg 300
cactcanaga gaagcatgtc tttggggaat cagatgagct gattgggcag aaagtggccc 360
atgctctggc aganggactc ggat                                       384


<210> 755
<211> 253
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (244)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

<400> 755
tgtagatctt tgaagactct gattctctga gactgaggag agatgtctta ccagcagcan 60
cagtgcaagc agccctgcca gccacctcct gtgtgcccca cgccaaagtg cccaagagcc 120
atgtccaccc ccgaagtgcc ctgagcctta cctgcctcct ccttgtccac ctgagcattg 180
cccacctcca ccttgccagt ataaatgccc tcctgtngca accataccac cctggcagcn 240
gaanttcccc cnn                                                  253


<210> 756
<211> 183
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)
```

695

```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (108)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<400> 756
ggcanaaana aggtaggaat aaggctagac ctttaacttc cctaaggnat actttttntag 60
ctaccttctg ccctgtgtnt ggnacctaca tccttaatga ttgtcctntt acccattctg 120
gaattttttt tttttaaaa naantncnga aagcattttg aaaaaaaaaa aacaaaaaaa 180
aag                                                               183

<210> 757
<211> 99
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (12)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (82)
<223> n equals a,t,g, or c

<400> 757
agcctttaat anatcatata ggaaantggt agntgcagta cggtnggaat tccgggtgac 60
tcagcgtccg ggattgnanc anctgggatt ggagtttgg   99

<210> 758
<211> 60
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

697

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<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<400> 758
ggcacgaggt tttttttttt tttttttttt tttttntntn ttttnntttt ttaaaaaaaa 60

<210> 759
<211> 66
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<400> 759
agaganaacc gagttttttt tttttttttt tttttttttt tttttttttt tttttttttnc 60
ccntnn                                                              66
```

```
<210> 760
<211> 487
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (477)
<223> n equals a,t,g, or c

<400> 760
tacagatgga gcaaatgtcc taacagagaa atagaggtga tgctgctaaa gggagaaatg 60
ccaggcggac aaagttcagt gtcgggaatt ttccccgtga cattcactgg ggcatgagat 120
tttggaagaa gtttttttact ttggtttagt cttttttttcc ttcctttttta ttcagctaga 180
atttctggtg ggttgatggt agggtataat gtgtctgtgt tgcttcaaat tggtctgaaa 240
ggctatcctg ctgaaagtcc tgctttccta tctagcattt atttctctgg caaacttttc 300
tttcttttct tttttaaagt aaacttgtgt attgagctta actgtatttc agtatttcca 360
gcttatgtgt acattattcc aatgataccc aacagttatt tatattttnt aacaaattca 420
cagtctgaat gangacttta tttcatggat tataataagg aatgaggtaa ttngngnctc 480
acattca                                                          487
```

```
<210> 761
<211> 422
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c

<400> 761
gaaaaggcta aaatcatgaa ttagttacaa gcaacagtac caacttatgt gacccctgag 60
gggtggggct gtgagctctt aatttgtttt tgattctgaa aaactctgct tcctggcatc 120
caggagttag agattgagcc tttcatcttc tttctcaaaa ctagtttttg atgctttctt 180
tcatgggaat agtcactttt ttatttagta aatcgcattg ctggaaccac caaggatgtg 240
gaatgtcctt gantgtatta tttatgcaag tcacagtcac gtttgccatc atggcantat 300
ttgaaacact aataatgtgt ttttacttt ttatccccgt taaaatgatn ttnaaaagga 360
aaaaggtggt tatagcccct anaatttctg ggtccaaatt atnccnaaaa tttcctaaaa 420
aa                                                                422

<210> 762
<211> 375
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c
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700

```
<220>
<221> misc feature
<222> (315)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<400> 762
tttgaccact tgccaagtcc ctgtctcttt cagacacaga caagcttcat ttaaattatt 60
tcaactgatg aagtaacaat aaagttataa atgataatga tcagatgaaa taatttataa 120
ctttattgtt acttcatcag tgtttccttt tgaaaggtgt atgaattcat tacatttta 180
ttctaatgta ttatctgtag attagaagat aaaatcaagc atgtatctgc ctatactttg 240
tgagttcacc tgtctttata ctcaaaagtg tcccttaana gtgtccttcc ctgaaataaa 300
tacctaaggg agtgnaacag tctctggagg accactttga gcctttggaa gttaagggtt 360
cctcagccac ctngt                                                 375

<210> 763
<211> 372
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (354)
<223> n equals a,t,g, or c

<400> 763
caatatgtag cttactcttt ttttcccccc ttcttaaacc accagtggtt cattttttaag 60
atttttttcat caagagaaga ataactttac taaattttat ttctttattt gcaaaagaat 120
ctttattaaa acaaacaatc ttaactatgc acatgatgtg accagatcat cttgaaaata 180
ttcctctttta gtaggaactc tttgttttta actcttggta tggtcagaat ataatacttc 240
cataattact tataattcct ntccgggtac tgggggctat aaatacaact ttttttaaatg 300
naattcatgg ttatcaaccn ggctccaagt accattangg ggtnccctat gggnaattac 360
cttgggaaag tc                                                     372


<210> 764
<211> 195
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (71)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (86)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (153)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c

<400> 764
cggacgcgtg ggcggacgcg tggggaaagg taagctctag cttaangtct angatttgtn 60
ctttganatt naggaaggta aggatnggtc agangatgta acttgatgtg agcagtaata 120
aacctgtntt aaatatcata ctgtgnatat ntnattgaaa atttatttca gagcggaaaa 180
acnttagcta aaatc   195

<210> 765
<211> 103
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (76)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

<400> 765
attaataatg gataccattc taaacaagtn aatccaagtt aagcccgtta aggagaaaga 60
aattaaggtt agcggntcat gtncaagctg ngtntgaaag tgg                  103

<210> 766
<211> 538
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (285)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (327)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (379)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (441)
<223> n equals a,t,g, or c

<220>
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704

<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (450)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (474)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (504)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (516)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (520)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (522)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (526)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (534)
<223> n equals a,t,g, or c

<400> 766
cccgcgcggg cgcaggcggc cggaatggcg gggcccggct ggggtccccc gcgcctggac 60
ggcttcatcc tcaccgagcg cctgggcagc ggcacgtacg ccacggtgta caaggcctac 120
gccaagaagg acactcgtga agtggtagcc ataaagtgtg tagccaagaa aagtctgaac 180
aaggcatcgg tggagaacct cctcacggag attgagatcc tcaaggcatt cgacatcccc 240
acattgtgca gctgaaagac tttcagtgtg agctgggggc ggggncgctg ccaaaaggag 300
tggagaagga catctntttc aggccgnctc tctgcctctt aaaacaacag ttgggaacag 360

```
ttgaaccaat taatcttanc ttcaatccat tgggaagttt ttttgccggc caagggggggg 420
gccggaaacc ttggtncttc nggcntttcn aatcccaatt aaaccccggc caanggaatt 480
ttcttggccc cttgaaagaa aaanggtttg ggcccncccn tnggtncctt tccnaatg   538
```

<210> 767
<211> 415
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c

<400> 767
```
ctttcccaag ggaaacactc agctttctat agaaaattgc acttttttgtc gagtaatcct 60
ctgcagtgat acttctggta gatgtcaccc agtggttttt gttaggtcaa atgttcctgt 120
atagttttttg caaatagagc tgtatactgt ttaaatgtag caggtgaact gaactggggt 180
ttgctcacct gcacagtaaa ggcaaacttc aacagcaaaa ctgcaaaaag gtggttttttg 240
cagtaggaga aaggaggatg tttatttgca gggcgccaag caaggagaat tgggcagctc 300
atgcttgaga cccaatctcc atgatgacct acaagctaga gtatttaaan gcagtggtaa 360
atttccagga aagccagaag ttaaaggcca aaattgtaaa tcagtcgaga tcggg      415
```

<210> 768
<211> 425
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (423)

706

<223> n equals a,t,g, or c

<400> 768
ctttgtacag gggctcagtt cagggaagag ttgagcttct ctctgagggg tccctagggg 60
gacccctcag gccaggccct gatccagttc tccagggtct ttctcagggt caggtccatg 120
gggagaccat ggggtgcttg tctgacactg acctcgccct gctgagtccc cccatcagac 180
tgtccttcct ctgcagcgag tgtctgcagg gtctggatcc aggaaaggaa ttctgatctg 240
tggaagtttg tctcccccgt gtgtgtcctg cactaaatgt ccaaaccctg atacaggatg 300
taatgcagag agggccacag gcacaaccca ggcctgacaa tcccgtatgt nggaagtaga 360
actgacccccc aacacccaga ngtcatgtng aaatactcac ggtatacatg gaaaaaaaaa 420
annaa   425

<210> 769
<211> 256
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (85)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (112)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<400> 769
attctagatg tagcttgtgc agatgtagca gganaatagg aaaacctacc atctcagtgn 60
gcaccagctg gcctcccaaa ggngnggcag ccgtgcttat attttatgg tnacaatggn 120
cacaaaatta ttatcaacct aactaaaaca ntcctttct ctnttttcct ggaattatca 180
tggagtttc taattctctn ttttgggaat ngtagattgt ttttgaaatg ctttnacgat 240
gttaaaatan tttatt   256

<210> 770
<211> 316
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)

708

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c.

<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (291)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<400> 770
ggnagaggtt caacgatgtg gtgtggcatg taagctggtc catcanagcc aacatcctgg 60
ctgtctctgg tggagacaat aaggaggagt tacagatgca gccacagatt gatcatctgc 120
ctttaacgtg aatcggagat gctttgtaat ctactgtncc agctgaagca ctncatgtta 180
```

```
cgaggaagaa actacaagtn atgttcaaat ctattttggg tcattttnat gtacctttgg 240
gttcaggcat tatttggggg gttttnnttc caaaggaact naantaaagt natnttgctt 300
attaaaaaaa ggaaaa                                                316
```

```
<210> 771
<211> 68
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<400> 771
caaaagcngg agcnccaccg cnggcgaccg cnctanaact agtggatccc ccggnctgca 60
ggaattca                                                         68

<210> 772
<211> 258
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (17)
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```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (155)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (189)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c

<400> 772
cggacggtgg gtttttntnt tttttttttt tttttttttt tnttntnttt ttttttttatn  60
nttgggtcat ttccacatgc tttattccag caatcaaaat aattaaaaac atctcaaatt 120
attatacaca tacaaaatng gtacagagtc ttttncttcc tcccacccct aggggggaaaa 180
actgctttnt gctttgggaa gttgtctctg aaacccgggg acagnggacg caggncagac 240
taggagggan ccgggang                                                258

<210> 773
<211> 587
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (535)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (559)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (565)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (570)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (572)
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712

<223> n equals a,t,g, or c

<400> 773
ggatcccaac tgctcctgcg ccgccggtaa gaggctgggg atgcccagtg tagactgtag 60
cgctagagaa gcaatttctg acccctcttt ctttctctgg tcactcaatt tcaggacagg 120
agttgctcct tcccaaagag ttttggggta tctttctctc cattctaggt tattcggagc 180
ccccttttta ccgttaagga gatctgagtt aatggcttgc tcaagttccc aggaatcggt 240
tgtggactga ggaactcggc cccgggctct tagtacgccg tcccttgttc aggtatccag 300
ggacggttct cacctctgtc ttttctcctt gcaggtgact cctgcacctg cgccggctcc 360
tgcaaatgca aagagtgcaa atgcacctcc tgcaagaaaa gtaagtggga tcctctcttt 420
cctctacccc ttcctgtcct ccagcctgtc ccctcttcac catcctcagg ggaattaaag 480
caagtctggg gatgccccat tgcgccggga aattggtggc ctcctcagtg atccntatca 540
aggagaagca aggaatccnt aattnccggn gnccgttgta cttaact   587

<210> 774
<211> 89
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (76)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

<220>
<221> misc feature

```
<222> (86)
<223> n equals a,t,g, or c

<400> 774
ggcagaggga aacatcaggn atgctaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaanannana aanaantat                                  89

<210> 775
<211> 113
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (106)
<223> n equals a,t,g, or c
```

```
<400> 775
ggtccggcgn ggtggaggga aacgcctccn tntctatata aggaatttcc cggtgtntnc 60
gggtcctttt ccctntnttc agagtggggg gcccaaattt gggcgntctg ttt        113

<210> 776
<211> 66
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<400> 776
ggcanaggat ttnaaccctc accttcgtgt ttcccccaat gtttaaaang tttggatggt 60
ttgtng                                                             66

<210> 777
<211> 441
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<400> 777
atttgtatga agaacttaa gcaaccttaa tattggctga gacttttaaa agagaaggag 60
```

```
aatttacttt tttgcctaat taggaggaag cttggtcata aggaaaaaga gctgtgttta 120
ggaaatagtg tgtgcccttt gaattaatgg agtgacaccg tgattcatga caggattcca 180
tttactggct gtatgccagc tgctgacagt ctataagtct taatagagat ggagtagagg 240
agctgaaggt tggcatctgc tcattgatga caactatgtt tacaatatgt tgtggactag 300
ttggggcact gaggcaggag aatcacgtgg agcccacggg ttcaagacca gcctgggaaa 360
catagcaaga ccttgtttct aaaaaaaaaa aaaaaaaaac ncgaggggGg gcccggtacc 420
caattcgccc taaagngagt c                                           441
```

```
<210> 778
<211> 483
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (471)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (472)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (478)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (481)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (482)
<223> n equals a,t,g, or c


<400> 778
gcttactttt aaccagtgaa attgacctgc ccgtgaagag gcgggcataa cacagcaaga 60
cgagaagacc ctatggagct ttaatttatt aatgcaaaca gtacctaaca aacccacagg 120
```

716

```
tcctaaacta ccaaacctgc attaaaaatt tcggttggggg cgacctcgga gcagaaccca 180
acctccgagc agtacatgct aagacttcac cagtcaaagc gaactactat actcaattga 240
tccaataact tgaccaacgg aacaagttac cctagggata acagcgcaat cctattctag 300
agtccatatc aacaataggg tttacgacct cgatnttgga tcaggacatc ccgatngtgc 360
agccgctatt aaaggttcgt ttgttcaacg attaaagtcc tacgtgatct gagttcagac 420
cggagtaatc caggtcggtt tctatctact tcaaattcct ccctggaaaa nnagaagngg 480
nng                                                              483
```

<210> 779
<211> 389
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (325)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (367)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<400> 779
```
ccctcttccc ggctccagct ccgccgccag ctccagcctt tgctcccccct cccaaagtcc 60
cctccccgga gcggagcgca cctagggtcc ctcttccgtc cccccagccc agctacccgt 120
tcagaccagc agcctcgggg ggcacccccc cgccagcctg cctccctccc gctcagccct 180
gccaggttcc cccagccatg aatctcttcc gattcctggg aaaactctcc caactcctcg 240
ccatcatctt gctactgctc naaatctgga attcccgctc gtgcgccgaa attcaggaaa 300
aaaacagtcc cgtttggtgt ggggntttca atggccnaat ttgaaatcct ttcacaataa 360
tntttantct aaaaattttt ttaaagggn                                  389
```

```
<210> 780
<211> 66
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<400> 780
ttgtttttaa aactatgnac caggtttcta atgatgaaat aaagcacctg tttgttttat 60
accaaa                                                         66

<210> 781
<211> 255
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (133)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

<220>
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718

```
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (184)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (209)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c

<400> 781
ggcagagcag agcagacgca caggccggaa aaggcgcatc taacgngtat ctaggctttg 60
gtaactgcgg acaagttgct ttnacctgaa tttnatgata catttcatta aggttccagt 120
tataaaatat ttngttaaat atttattaan gtggactata gantgcaaac tnccatttnc 180
cngntaaact tgtttttaaa ttatggccnt aggtaaccca tatngtaggg tattaatttc 240
cttggaacca aacca                                                  255

<210> 782
<211> 348
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (296)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
```

```
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (345)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c


<400> 782
ttnagtagag acagggtttc accatgtnag tnaggctggt ctcgaactcc tgacctcagg 60
tgaatccacc cgagnttggc ctcccaagtg gctgggcatt ataggcgtga gcactcacgt 120
ccncgcctca aaatngcata ttcaaagaag caatttcagt tcctttctaa gctttgtnag 180
tnaaggggct ccactgactt cctaggccct gtaaatttaa accagtcttt aaggttttgc 240
caggaaagtt cccttctttc caagtgggtt tttccaaatg ggcacaatgg caagcnanac 300
agaggangaa acattaaaaa aannaaaaaa aatttggggg ggggnncc                348


<210> 783
<211> 160
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (82)
<223> n equals a,t,g, or c
```

721

```
<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<400> 783
ggcacgagct acaatggcac tgtggactna tgtttccttc gccgagngnc tggagcgggg 60
atctgatgaa aaggtcanac tnaaacgcct tgcacggctt ctcggcttga tcacagctcc 120
ctaggtaggt naccacagag nngncncttc tagtgagcct                       160

<210> 784
<211> 81
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c
```

722

```
<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c


<400> 784
ggcacgagcc gggatcgtgc cattncattc cagtctgggt gacagagcta gactccatct 60
caaaaaaaaa aaaaaannng n                                           81

<210> 785
<211> 541
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c


<220>
<221> misc feature
```

723

```
<222> (364)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (393)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (411)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (521)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (530)
<223> n equals a,t,g, or c

<220>
<221> misc f ature
<222> (539)
```

<223> n equals a,t,g, or c

<400> 785
gagctgcagg catcagagaa ccagccctgc tcacgccatg cccgccccg ccttccctct 60
tccctcttcc ctctccctgc ccagccctcc cttccttcct ctgccggcaa ggcagggacc 120
cacagtggct gcctgcctcc gggagggaag gagagggagg gtgggtgggt gggangggc 180
cttcctccag ggaatgtgac tctcccaggc cccagaatag ctcctggacc caagcccaag 240
gcccagcctg ggacaaagct ccganggtcg gctggccgga gctatttta cctcccgcct 300
ccctgctgg tgcccccacc tggacgtctt gctgcagagt ctgacactgg attnnnaaaa 360
nctnaaaang aaccctggta cccaattctg ggncccggnc ctaanctcgg ncccaaccca 420
tcatctgtgg acaatggagt ctggaataaa tgctgtttgt canatcaaca aaaaaaaaaa 480
aaaaggggng gccgctttag aggattcaaa gcttaagtaa nggtgcatgn gaagttcana 540
a   541

<210> 786
<211> 433
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c

<400> 786
cccacgcgtc cggtctaaca cgtgcgcgag tcgggggctc gcacgaaagc cgccgtggcg 60

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caatgaaggt gaaggccggc gcgctcgccg gccgaggtgg gatcccgagg cctctccagt 120
ccgccgaggg cgcaccaccg gcccgtctcg cccgccgcgc cggggaggtg gagcacgagc 180
gcacgtgtta ggacccgaaa gatggtgaac tatgcctggg cagggcgaan cagaaggaaa 240
ctctggtgga ggtccgtagc ggtcctgacg tgcaaatcgg tcgtccgacc tgggtatagg 300
ggcgaaagac taaatcgaac catcttagta agctggtttc cctccgaaan tttccctcaa 360
gataagcttg gcgctctcgc aagaccccga aggaaccccn gncanggaat ttttatccgg 420
tnaaagcgaa ttg                                                  433
```

<210> 787
<211> 527
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c

<400> 787
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cccaggatgt gtggcgagag cctgggccag cccacagcgt tcctagtcag gcagccacac 60
cttggtcctc atcttggtcc cttccaatct gaaacctcgt gcctggctcg tctgccacct 120
acatttctct ttccagctgc tgttttgtaa aaagaaaaag aaaaaagaag cccaaactag 180
tgagagtaat atctaattat ctcatttttt gtaggtctgt gataaagaac ttagtcatcc 240
cttccacctc ctactgtgaa gaacagaccc tgggtcccac actgaaatcc cctctagtca 300
cccattccca ccccccaggg agctgcctcc caggcagggg gtgcagaaaa tgattgatgg 360
gctggggaac cctggagagc ctcgactccg gaagtctcaa ggtgcctcct cctctcctta 420
gctggcccgt tggttttctg agcaggggc tgaactgtga acaagtcaga caaataaagc 480
aagggtctgc ancatctgca atgtcaaaaa aaaaaaaaaa aaaaaaa            527
```

<210> 788
<211> 203
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c

<220>
<221> misc feature

726

```
<222> (181)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c

<400> 788
gcttcatgtg gtctgacaat ttattttttgc catcattttt ttaattaaag aaaaaatttc 60
cagaagagga aaaaaaaact acaaaaaaca aaacattgaa ggttgatatt ttatgtggaa 120
naacatttga attgaattca gaatttttct gaaggtgtan atactttttt tttttttttna 180
ncaaaaaccc tnatttcaaa agg                                         203

<210> 789
<211> 124
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c

<400> 789
ggcacgagca gcctacagcc gcctgcatct gtatccancg ccaggtcccg ccagtcccag 60
ctgcgcgcgn cccccagtcc cgcaccngtt cggnccaggc taagttagcc ctnaccatgc 120
cggt                                                             124

<210> 790
<211> 293
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<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (184)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (222)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<400> 790
ggcanagcgg cagtccagga cctgcaggcc ccagaggacc tgtnggaccc antggacctc 60
ctggcaaaga tggaaccant ggacatccag gtgccattgg accaccaggg cctcgaggta 120
acagnggtga aagnggatct nagggctccc cagggccacn cagggcaacc agggccctnc 180
tggnacctcc tggtgcccct ggtccttgct gtggtggtgt tngagccgct gccattgctg 240
ggattgggag gttgaaaaag cttggncggt tttgnccccg ngtttantgg ggg   293

<210> 791
<211> 129
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (113)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (116)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c

<400> 791
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaggg gcggccgttt tanaggatcc aagnttacgt acncgngcnt 120
gcaacgtca   129

<210> 792
<211> 267
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (247)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<400> 792
ggcacgagcg gccttgagcg cgacgaagac gtgtaggcct gctttccgag gggcgagcgc 60
ggcgccgcgg ggaggagggc ctgcgcgcag tcccgggcgc gttctagggc gccatgctgc 120

730

```
gggaagtctc gcgcgattag tggggaggtc tcgcggcttc tggctacttg gtggcgaggt 180
gaagagcttc tgcaggtgct gggggcggcg aacgcggcgg gaaagaaaaa aaaaaaaaaa 240
aaaaaanctn ggnaagtatt tttanan                                    267
```

<210> 793
<211> 453
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c

<400> 793
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ggggaaaagt tttggcagga gcgggagaat tctgcggacc tgcgggacgg cggcggtggc 60
gccgtagnag ccggggacag gtcagtccga gacgagagaa gcggtcagtg ttgtacagtg 120
ttttgggcat gcacgtgata ctcacacagt ggcttctgct caccaacaga tgaagacaga 180
tgcaccaacg aggctgatgg gaaccatcct gtagaggtcc atctgcgttc agacccagac 240
gatgccagag ctatgactgg gcctgcaggt gtggcgccga ggggagatca gccatggagc 300
agccacagga ggaagcccct gaggtccggg aagaggagga gaaagangaa gtggcagaag 360
cagaaggagc cccagagctc aattggggac cacagcatgc acttccttcc agcagctaca 420
cagactctcc cggagctcct cgncaacctt atg                             453
```

<210> 794
<211> 141
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature

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<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (108)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (137)
<223> n equals a,t,g, or c

<400> 794
caacgaccgc gtttncntgg cacgggggtcn ggcccgcctg gccctgggaa agcntcccac 60
ggnggggggcg cgccggtctc ccggagcggg accgggtcgg aggatggncg agaatcacga 120
gcgacggtgg tngtggngtg t                                             141

<210> 795
<211> 167
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)
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```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (112)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (164)
<223> n equals a,t,g, or c

<400> 795
ggggacccac ccgagggtcc agccaccagc cccctcacta atagcngcca cccnncagc 60
ngcggcacag cagcagcgac gcagcggcga cantcagagc agggaggccg cnccacctgc 120
gggccggccg gagcgggcag ccccangcnc cctccccggg cacncgc          167

<210> 796
<211> 331
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (88)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (90)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (101)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (114)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (116)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c

<220>
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<221> misc feature
<222> (125)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (242)
<223> n  quals a,t,g, or c

<220>
<221> misc feature
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<220>
<221> misc feature
<222> (244)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<400> 796
aattcggnan cacgcnacgn cataccgtgg cagnttctgt ntgagacgaa catncngnag 60
nctccactca gctaatgtna caacatgngn nctacttctc nctnnctttt acannnacag 120
gannnnggcc nnagttaata tatccngtgt acctcactgt ccaatatgaa aaccgtaaag 180
tgccttatag gnatttgcgt aactaacaca ccctggttca ttganctnta cttgctgaag 240
nngnaaaaga caggataagn tttcaatagt ggcataccan atgggacttt tgatgaaatg 300
aatatcaata ttttctgcaa ttccatgngc t   331

<210> 797
<211> 699
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (404)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (521)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (564)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (589)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (597)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (598)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (635)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (643)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (657)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (678)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (695)
<223> n equals a,t,g, or c

<400> 797
gctccacctt actaccagac aaccttagcc aaaccattta cccaaataaa gtataggcga 60
tagaaattga aacctggcgc aatagatata gtaccgcaag ggaaagatga aaaattataa 120
ccaagcataa tatagcaagg actaacccct ataccttctg cataatgaat taactagaaa 180
taactttgca aggagagcca aagctaagac ccccgaaacc agacgagcta cctaagaaca 240
gctaaaagag cacaccgtc tatgtagcaa aatagtggga agatttatag gtagaggcga 300
caaacctacc gagcctggtg atagctggtt gtccaagata gaatcttagt tcaactttaa 360
atttgcccac agaaccctct aaatcccctt gtaaatttaa ctgntagtcc aaagaggaac 420
agctctttgg acactaggaa aaaaccttgt agagagagta aaaatttaa cacccatagt 480
aggcctaaaa gcagccacca attaagaaag cgttcaagct naacacccac tacctaaaaa 540
aatcccaaac atataactga actnctacac ccaattgggc caatctatna ccctatnnaa 600
gaactaatgg tagtataagt acatgaaaac cattnttctt cgnataagcc ttgcgtnaga 660
attaaaacac tgaactgnac attaaacagc caatntcta                      699


<210> 798
<211> 138
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<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (127)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (133)
<223> n equals a,t,g, or c

<400> 798
cccggcacag agtcgatgct caataaatgt gtgttgactg catgaatgac ctggaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaccccn 120
gggggggnncc ccncccccc                                            138

<210> 799
<211> 496
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (414)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (442)
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<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (490)
<223> n equals a,t,g, or c

<400> 799
cacactgtna tgctagcctc acgaaactgg aataagcctt cgaaaagaaa ttgtccttga 60
agcttgtatc tgatatcagc actggattgt agaacttgtt gctgattttg accttgtatt 120
gaagttaact gttcccttg gtatttgttt aatacctgt acatatcttt gagttcaacc 180
tttagtacgt gtggcttggt cacttcgtgg ctaaggtaag aacgtgcttg tggaagacaa 240
gtctgtggct tggtgagtct gtgtggccag cagcctctga tctgtgcagg gtattaacgt 300
gtcaaggctg agtgttctgg ggaattctct agaggctggc aagaaccagt tggttttgtc 360
cttgcggggt ctgtcaaggg ttggaaatcc caagccgtag gacccagttc cctnccttaa 420
ccgaagtctt tggccaaaca cnngggccgt aactggcctt gagttggaac ggttgcataa 480
gccgnaaagn atcaac   496

<210> 800
<211> 516
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (44)

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (157)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (164)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (166)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (188)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (190)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (199)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (220)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (270)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (273)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (296)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (487)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (500)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c

<400> 800
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gctgaaaaag gnggggggga gccaattann acgcccagac ggantaaccc caggccccgc 60
cacaccaccc cttgccaaan tcatctgcct gctccccggg gggagangac cgccggcctc 120
tnctactagc ccaccagccc accagggana aaataancca tganangcng cgnccgccac 180
ccngtgtncn cantccccnc cttcccgntt cccttagaan cctgccgcgt cctatctcat 240
gacgctcatg gaaccncttt ctttgatctn ctntntctta tctccccctc tttntngttc 300
taaagaaaat cattttgatg caaggtcctg cctgnnatca natccgaagt gctcctgcag 360
tnacccttn cctggcattt ctcttccacg cgacaagtct gctagtgaga tcttgcatga 420
ctcactttgt ttccaaaacc cggggctatt ttgcatctca agtttcctgg ggcctgcttc 480
ctgtgtncca cttaagggcn nctgggccaa gactgt                          516
```

<210> 801
<211> 284
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<400> 801
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naagcncccg gngaacttgg ggaaggcncg cctgcaggta ccggtccgga attcccgggt 60
cgaccttcgc gtttttatat atatagatat atatatagat atatatagat atatatatag 120
atatatatag atatatatat agatatatat agatatatat agatatatat agatatatag 180
atatatatag atatatatag atatatagat atatagatat atatatagat atatagatat 240
atatagatat atagatatat atatatctgg ctcatgcatg aaaa                 284
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<210> 802
<211> 153
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

744

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<220>
<221> misc feature
<222> (92)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c

<400> 802
cggacggctg tgtagcgcgt gggtgtaaga cttgcccaag tcccanagca cctcacctcc 60
cgaagccacc atccccaccc tgtcttccac anccgcctga aagccacaat gagaatgant 120
cacactgagg cctngatgtn ctntaatcac ttg                                 153

<210> 803
<211> 383
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<400> 803
cacgtgagat taaaaccaat tttttccca ttttttctcc tttttctct tgctgcccac 60
attgtgcctt tattttatga gccccagttt tctgggctta gtttaaaaaa aaaatcaagt 120
ctaaacattg catttagaaa gcttttgttc ttggataaaa agtcatacac tttaaaaaaa 180
aaaaaaactt tttccaggaa aatatattga aatcatgctg ctgagcctct attttctttc 240
tttggatgtt ttggattcag tattccttta nccataaatt tttagcattt aaaaattcac 300
nggatggtac attaagccaa taaactggct ttaatggatt acccaaaaaa aaaaaaaaaa 360
aaaggggggn cgcnncagag ggn                                          383

<210> 804
<211> 509
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<220>
<221> misc feature
```

746

```
<222> (434)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (478)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (504)
<223> n equals a,t,g, or c

<400> 804
ggcacgagct gggttgtcct ttgcatctgc acgtgttcgc agtcgtttcc gcgatgctga 60
ctctggagct cagcacagcc ctggagcacc aggngtacat tacttttctt gaagacctca 120
agagttttgt caagagccag tagagcagac agatgctgaa agccatagtt tcatggcagg 180
ctttggccag tgaacaaatc ctactctgaa gctagacatg tgctttgaaa tgattatcat 240
cctaatatca tgggggaaaa aataccagat ttaaattata tgttttgtgc tctcatttat 300
ttatcatttt tttctgtaca aatctattat ttctaggttt ttgtattaca tgatagacat 360
aaattgggtt atctcctcca ggcagtttgt cttttcnant nctcccccctt caaccgtgtc 420
acaaagacca gacngtgtcg ggaaagtttt ttttctccgt attgttaaag gttccatnca 480
attaggttta ataaaggctt nttntccag                                   509

<210> 805
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (648)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (668)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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747

<222> (718)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (736)
<223> n equals a,t,g, or c

<400> 805
ncaaacccac tccaccttac taccagacaa ccttagccaa accatttacc caaataaagt 60
ataggcgata gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa 120
aattataacc aagcataata tagcaaggac taacccctat accttctgca taatgaatta 180
actagaaata actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc 240
taagaacagc taaaagagca cacccgtcta tgtagcaaaa tagtgggaag atttataggt 300
agaggcgaca aacctaccga gcctggtgat agctggttgt ccaagataga atcttagttc 360
aactttaaat ttgcccacag aaccctctaa atccccttgt aaatttaact gttagtccaa 420
agaggaacag ctctttggac actaggaaaa aaccttgtag agagagtaaa aaatttaaca 480
cccatagtag gcctaaaagc agccaccaat taagaaagcg ttcaagctca acacccacta 540
cctaaaaaat cccaaacata taactgaact cctcacaccc aattggacca atctatcacc 600
ctatagaaga actaatggta gtataagtaa catgaaaaca ttctcctncg cataagcctg 660
cgtcaganta aaacctgact gacaattaac agcccaattc tacaatcaaa caacaagnca 720
ttattaccct tactgncaac ccaaccaggc atg   753

<210> 806
<211> 404
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (398)

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<400> 806
ggaagaagga ngaaaagcag gaagctggaa aggaaggtac tgcaccatct gaaaatggtg 60
aaactaaagc tgaagaggta ctttccataa atacctccca ctgattgaat cagtgtcttt 120
aaagaaattt ctcaatcctt cagccggtga tagcacgttc ttaatgtctc tttttattgc 180
ctgtaatgtt attgcagatc cacatctctc gctcaactgt taatgtctca acctccagag 240
gcaccccacc cagcacactg tcagtaaagg ggcagaatga aacagtgaga gttaagggta 300
caggaagaaa atttgcatgt ttgcaagtga ctagaatcag atagtaagtg gnggtgggtt 360
tttttttta atcattatga aanagtggga agcttngnag gtna             404

<210> 807
<211> 428
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (89)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (164)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (426)
<223> n equals a,t,g, or c

<400> 807
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```
cngttcctcc gcctgtnccn tggggggggcc ctnagaggga aggagaggtt tctcacacca 60
aggcagatgc tcctctggtg ggagggtgnt ggcccggcaa gattgaagga tgtgcagggc 120
ttcctctcag agccgcccaa actgccttga tgtgtggagg ggangcaaga tgggtaaggg 180
ctcaggaagt tgctccanga acagtagctg atganctgcc cagagtgcct ggctccagcc 240
tgtacccttg gtatgccntg aacatntggt ttccccaccc aantgcggct aagtctcttt 300
ttccttggat cagccaggcg aaattggggc tttgacaagg aattttctaa ggaaaccttg 360
ttaaccagac aaaacacaac cagggttaca gggggtatgn aagggttttc tgncccngga 420
ggnttnag                                                           428
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<210> 808
<211> 403
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (85)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c

<220>
<221> misc feature

751

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<222> (265)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (270)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (288)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<400> 808
cnagccccga ggggctctcg cttctggcgc caangcccgg ccgcgcgccg gccgggccga 60
cnccgctccg gggacagtgc caggnggoga gtttgactgg ggcggtacac ctgtcaaacg 120
gtaacgcagg tgtcctaagg cgagctcagg gaggacagaa acctcccgtg gagcagaagg 180
gcaaaagctc gcttgatctt cattttcagt acgaatacag accgtgaaag ccgggcctca 240
cgatcctcct gaccttnncg ntttncagcn ggaggtgtca gaaaantnac cacagggata 300
actcgcttgt cgcggccaag cgttcatagc gacgtcgctt tnccangtnc gatgtcggat 360
cttcntatca ttgtnaagca gaattcacca agcgttggat tgt                  403
```

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<210> 809
<211> 583
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (472)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (478)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (481)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (488)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (565)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (571)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (573)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (581)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (583)
<223> n equals a,t,g, or c

<400> 809
tcgacccacg cgtccgggac gacagttagc tatgctgata cccttctgtg aggagttgaa 60
tttgaagacc acttggctgt ttcacaaaac cagaagtaat tacagggtgt tcctgaaaag 120
ccccatagtg attgagtctt caaaaccacc gattctgaga gcaaggaaga ttttggaaga 180
aaatctgact gtggattatg acaaagatta tcttttttct taagtaatct atttagatcg 240
ggctgactgt acaaatgact cctggaaaaa actcttcacc tagtctagaa taagggaggt 300
gggagaatga tgacttaccc tgaagtcctt cccttgactg cccgcactgg ggcctgttct 360
gtgccctggg agcatnntgc ccagctaagt ggggttcagg cagtgggcag ctttcccaat 420
nantcgattt ccatnccagn gganttaaaa ccagttggcc aaatttccaa gnccttgnaa 480
ntaaggantc catttaccaa cccgcggttt tgtggtcagt gccccaaggg ggtaggttga 540
aggggggctta acaaacatgg aagtngggggg nanaagggat nan                 583

<210> 810
<211> 272
<212> DNA
<213> Homo sapiens
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<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (43)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (167)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c
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755

<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c

<400> 810
tttttttttt tttttggacg ttaaaggcat ttnattccag cgncttctag agagcttagt 60
gtatacagat gagggtgtcc gctgctgctt tccttcggaa tccagtgctt ccacagagat 120
tancctgtan cttatatttg acattcttca ctgtctgttg ttnancnacc gtagcttttt 180
accgttcact tcccctтcca actatgtcca gatgtgcagg ctcctccnct ctggactttc 240
tccaaaggca ctgaccctng gnctnnactt tg   272

<210> 811
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (264)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (276)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c

```
<400> 811
ggcagagnat aaaatcttaa agcactcata atatggcatc cttcaatttc tgtataaaag 60
cagatctttt taaaaagata cttctgtaac ttaagaaacc tgggcattta aatcatattt 120
tgtctttagg taaaagcttt ggtttgtgtt cgtgttttgt ttgtttcact tgtttccctc 180
ccagccccaa acctttgtt ctctccgtga acttaccttt cccttttct ttctcttttt 240
ttttttgga anattaatng tttncaataa aatttncatn gccattaaaa aaaaaaaaaa 300
```

```
<210> 812
<211> 478
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (232)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (325)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (460)
```

757

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c

<400> 812
gccaccttac taccagacaa ccttagccaa accatttacc caaataaagt ataggcgata 60
gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa aattatagcc 120
aagcataata tagcaaggac taacccctat accttctgca taatgaatta actagaaata 180
actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc tnagaacagc 240
tgaaagagca cacccgtcta tgtagcaaaa tagtgggaag atttataggt tgangcgaca 300
aacctaccga gcctggtgat agctngttgt tccaanattg aatccttagt tccactttta 360
atttggcccc aaaaacccc taattcccct tggttaattt taactgttng tcccaaaaaa 420
ggaaccngct ctttgggacc cttanggaaa aaaaccttgn ttaaaaanaa ttaaaaaa 478

<210> 813
<211> 63
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<400> 813
gccgcggtcc ttcagactgc ccggagagcg cgctctgcct gccgcctgnn tgnctgncnc 60
tga   63

```
<210> 814
<211> 73
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
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<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
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<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<400> 814
ggcngacatt cagactgagc gtgcctacca aaagtanncg accatctttc anaacaanaa 60
gagggtcctg ctg                                              73

<210> 815
<211> 102
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
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<222> (91)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<400> 815
gctgccgcct gcctgcctgc cactgaggnt tcccagcacc atgagggcct ggatcttctt 60
tctcctttgc ctggccggga gggccttggc ngnccctcan cn                     102

<210> 816
<211> 379
<212> DNA
<213> Homo sapiens

<220>
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<222> (340)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (358)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<400> 816
gctccacgag ggttcagctg tctcttactt ttaaccagtg aaattgacct gcccgtgaag 60
aggcgggcat aacacagcaa gacgagaaga ccctatggag ctttaattta ttaatgcaaa 120
cagtacctaa caaacccaca ggtcctaaac taccaaacct gcattaaaaa tttcggttgg 180
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760

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ggcgacctcg gagcagaacc caacctccga gcagtacatg ctaagacttc accagtcaaa 240
gcgaactact atactcaatt gatccaataa cttgaccaac ggaacaagtt accctaggga 300
taacagcgca atcctattct agagtccata tcaacaatan ggtttacnac ctcgatgnnn 360
ggatcaggac attccaatg                                              379
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<210> 817
<211> 500
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (201)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (238)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>

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<222> (251)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (345)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (363)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (480)
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763

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (484)
<223> n equals a,t,g, or c

<400> 817
tcgacccacg cgtccggcca cagccacagc caggctagcc tcgccggttc ccgggtggcg 60
cgcgttcgct gcctccttca gctccaggat gatcggccag aagacgctct actccttttt 120
ctcccccagc cccgccaaga agcgacangg ccccaagncc cgagccggcc gtcaagggga 180
ccggngtggc tngggttgct naagaaagcg gaatncgggg ggcatcccag ccaagaangn 240
cccggctggg naggagaanc tngggaacgc cggcctcctt ggncgctgaa ttnccgaaca 300
ttttggaacc ggattccaga ggaacaaagg gcccgnggnc cttgnttaan aatncggggg 360
ccngnaaang ttnccccttg gggnttttttg gaanaanaac ctgggaaaga aagcanctta 420
aggggggggn attttcgggg gaaancgtta tttttaatca aagctaaatt ggggatttttn 480
tttncaaaaa ggaaaggaaa   500

<210> 818
<211> 329
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (95)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (104)

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (159)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (184)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (196)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (209)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<400> 818
cggtaccaat ttacacagga gacagctatg accatgatta cnccnagctc gnaattaacc 60
ctcactaatg ggaacanaag ctggagctcc accgngtagg cggncggtct agaactagtg 120
tgatcccccg ggctgcagga attcggcncg agaggaaana gaaaccgtct gaactatgct 180
gnnngccatc atnctnggcc tcatcgcnnt tccatcccta cgcatgcttt acatagcana 240
cgaggtgacg atgccnccct taccatcaag atcanttgnc caccaatggt acttgaacct 300
acgagtacac ccgaccaccn ggtggacta                                   329

<210> 819
<211> 648
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (518)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (544)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (547)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (565)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (584)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (626)
<223> n equals a,t,g, or c


<400> 819
gcttaaattc ttttgaggat gggatgtatt tttcttgctg ttcagtgctt tttccttttc 60
atctgttgtt ctgtggtcac agtgacctta gctacatagc agactttccc aaatgtattg 120
attacaaata aacagttgtt acttagcaag acctgaaaat atgtctgcag gtttctcctt 180
gaagcaaatg tgtgggatca ttgcatttcc agaaatctgc ctccttcacc ctccgttgac 240
agtatatgtc atgcctcact ttcttctagc tgagctttaa atcattagag cttaaattgt 300
cagatcgttc attgcctttc cagggttatt tagtaaagtt tgttgaaaac aaaaacgcct 360
tttcttggnt cttttttcag ttattttgaa ggccagcatc ctgattaaat gctgacacat 420
taatgaatga ccagcaacag ctttcagctc ttaaaaagac acttatattt gaatttacat 480
gctgggtacc tgggtccaat ggtggcaaaa ggccactntt cattaaaagg ggtcctccat 540
ttcntanccc caaggacttc ctcanttttc aaattgggaa gggnacctaa aaggggtac 600
aattaaaacc ctggggtaaa ggggnaaaa aaaaaaaaaa aaaaaaa              648


<210> 820
<211> 469
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (238)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (465)
<223> n equals a,t,g, or c

<400> 820
gccactccac cttactacca gacaacctta gccaaaccat ttacccaaat aaagtatagg 60
cgatagaaat tgaaacctgg cgcaatagat atagtaccgc aagggaaaga tgaaaaatta 120
taaccaagca taatatagca aggactaacc cctatacctt ctgcataatg aattaactag 180
aaataacttt gcaaggagag ccaaagctaa accccccaat aaaccttgaa cagtgaanaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaacctcgag gtcnacggta tcnataacct 300
tgatatcnaa ttcggcacna gcaaccctca ttccccaacc cacgccggag gctgcgcctg 360
caggacctgn ctgaccgatt ggtggatcct ctgaanatga acacgactca ccactgctca 420
ncgaggcntg cttgagcaaa atccgccaat tataaaaaaa aaacnctcc       469

<210> 821
<211> 432
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (419)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c

<400> 821
ggcacgagag aaactgtgtg tgaggggaag aggcctgttt cgctgtcggg tctctagttc 60
ttgcacgctc tttaagagtc tgcactggag gaactctgcc attaccagct cccttgttgc 120
agaaggaagg ggaaacatac atttattcat gccagtctgt tgcatgcagg ctttttggct 180
tcctaccttg caacaaaata attgcaccaa ctccttagtg ccgattccgc ccacagagag 240
tcctggagcc acagtctttt ttgctttgca ttgtaaggag agggactaaa gtgctagaga 300
ctatgtcgct ttcctgagct aacgagagcg ctcgtgaact ggantcaact gctttcaggg 360
aaaaagaaaa aaaaaaaaaa aaaanccggg ggggggcccg gtaacccatt tcccctana 420
gnggngggt tt   432

<210> 822
<211> 428
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (367)
<223> n equals a,t,g, or c

<220>
<221> misc feature

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<222> (382)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c


<400> 822
aagtctcttc agtgcactcg ctccctctct ggctaaggca tgcattagcc actacacaag 60
tcattagtga aagtggtctt ttatgtcctc ccagcagaca gacatcaagg atgagttaac 120
caggagacta ctcctgtgga ctgtggagct ctggaaggct tggtgggagt gaatttgccc 180
acaccttaca attgtggcag gatccagaag agcctgtctt tttatatcca ttccttggat 240
gtcattgggc ctctcccacc gatttcatta cggtgccacg catccatggg atctgggta 300
gtccggaaaa acaaaaggag ggnagacagc ctggtaatgg ataagatcct taccacagtt 360
ttcccanggg gaatacctta tnaanccttc aacttttttt tttcccttaa gaattaaaac 420
ggggnana                                                         428


<210> 823
<211> 100
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (71)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c

<400> 823
ctcagctcct gggggctcct gctactctgg gntcccgagg gtgccaaaat gtgncatcca 60
agntgaccca ntctccgncc ctccctgtct gcagctggta   100

<210> 824
<211> 173
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (156)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c

<400> 824
cggacgcgtg ggcggacgcg tgggcggacg cgtgggccga gaaccacagg tgtacaccct 60
gcccccatcc cgggaggana tgaccaagaa acagtcagct gaactgcctg nttctanagg 120
tttctatccc acgaaatccc cttgaattgg gaaacnattg ggcanccgaa aaa   173

<210> 825
<211> 341
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (313)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<400> 825
cccaaaccca ctccaccta ctaccagaca accttagcca aaccatttac ccaaataaag 60
tataggcgat agaaattgaa acctggcgca atagatatag taccgcaagg ggaaagatga 120
aaaattataa ccaagcataa tatagcaagg actaacccct ataccttctg cataatgaat 180
taactagaaa taactttgca aggagagcca aagctaagac ccccgaaacc agaacgagct 240
accttagaac agcttaaaga gcacacccct ctatttttgc canaatagtg ggaaagattt 300
ataggttgaa ggnaacnaac ctaccgagcc tggtnaatnc t                   341

<210> 826
<211> 492
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (471)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

<400> 826
gcaaacccac tccaccttac taccagacaa ccttagccaa accatttacc caaataaagt 60
ataggcgata gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa 120
aattataacc aagcataata tagcaaggac taacccctat accttctgca taatgaatta 180
actagaaata actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc 240
taagaacagc taaaagagca cacccgtcta tgtagcaaaa tagtgggaag atttataggt 300
agaggcgaca aacctaccga gcctggtgat agctggntgt ccaagataga atcttagttc 360
aactttaaat ttgcccacag aaccctctaa atccccttgt aaatttaact gttagnccaa 420
agaggaacaa gctctttgga cactangaaa aaaccttgta tagagaggaa naaanatttn 480
acaacccata ct   492

<210> 827
<211> 290
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (264)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (290)
<223> n equals a,t,g, or c

<400> 827
ggtcgtgctc tcccgggccg ggtccgagcc gcgacgggcg aggggcggac gttcgtggng 60
aacgggaccg tccttctcgc tccgccccgc gggggtcccc tcgtctctcc tctccccgcc 120
cgccggcggt gcgtgtggga aggcgtgggg tgcggacccc ggcccgacct cgccgtcccg 180
cccgccgcct tctgcgtcgc gggtgcgggc cggcggggtc ctctgacgcn gcagacagcc 240
ctcgctgtcn cctccagtgg angncgactt gcgggcggta ctcctacgan   290

<210> 828
<211> 420
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc·feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<220>
<221> misc feature

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<222> (405)
<223> n equals a,t,g, or c

<400> 828
gggtcgaccc acgcgtccgg cagcacggaa aaagaaggtc tcctccacga agcgacactg 60
agcgtgcacc aagggcttgg tctgcggggg ccttggagct cctgctcttc tcccgcacct 120
ccatggatgc actgctgccg agcagagcng cctctgccag gccccgccct gggattccta 180
gagactagct tcagttttgc tatttttttt aagtgggaga agggtgggca gttatcactg 240
gggaagagag gaccggccac ctgtccagca tgggctccag agccttcctc tctcacaggg 300
cagagtcttg tcggcaaggc agcctcctgg ccantttctc tgctcatgtt tctggttagc 360
agagttcaga gccaattgtt tnacttcttg gttgtncccg tgnangaagc ctttcaaaac 420
```

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<210> 829
<211> 298
<212> DNA
<213> Homo sapiens
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<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c
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```
<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c
```

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<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (109)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (171)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (181)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (268)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (269)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<400> 829
ttcagaaaaa acaatagtnn tgtgcctctn tcttctcaaa caatggatga cacaannta 60
tggagagtga caaaatggtg acaggtagct ggggacctag gctatctcnc catgaaggtt 120
gttcngctna ttgtatatct gtgtatgtag tgtaactata ttgtacaatg ngaagactgt 180
naactactat ntagggttgt tgcagattga aatttagttg tctcattggc tgtctgagga 240
```

```
agtgtggact tctatatata gatctannnt gaaaactgct ncatgantga aaaccaca    298
```

```
<210> 830
<211> 516
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (477)
<223> n equals a,t,g, or c

<220>
<221> misc featur
<222> (497)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (513)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (515)
<223> n equals a,t,g, or c


<400> 830
ncggnaactn ctcactatag ntgaaagctg gtacncctgc aggtaccggt ccggaattcc 60
cgggggcatc cccttgtccc caagagaccc gacgcttgct tcatggccta cacgttcgag 120
agagagtctt cgggagagga ggaggagtag ggccgcctcg gggctgggca tccggcccct 180
ggggccaccc cttgtcagcc gggtgggtag gaaccgtaga ctcgctcatc tcgcctgggt 240
ttgtccgcat gttgtaatcg tgcaaataaa cgctcactcc gaattagcgg tgtatttctt 300
gaagtttaat attgtgtttg tgatactgaa gtatttgctt taattctaaa taaaaattta 360
tattttactt ttttattgct ggtttaagat gattcagatt atccttgnac tttgaggaga 420
agtttcttat ttggagcttt tggaaacagc ttaagctttt aacttggaaa gatangnatt 480
aatccccttc attggtntcc aaaagccaat aangng                         516


<210> 831
<211> 636
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (414)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (530)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (617)
<223> n equals a,t,g, or c


<400> 831
ggaaaaaaat gagttccatt taaaattttg gcatatggca ttttctaact taggaagcca 60
caatgttctt ggcccatcat gacattgggt agcattaact gtaagttttg tgcttccaaa 120
tcactttttg gttttttaaga atttcttgat actcttatag cctgccttca attttgatcc 180
```

```
tttattcttt ctatttgtca ggtgcacaag attaccttcc tgttttagcc ttctgtcttg 240
tcaccaacca ttcttacttg gtggccatgt acttggaaaa aggccgcatg atctttctgg 300
ctccactcag tgtctaaggc accctgcttc ctttgcttgc atcccacaga ctatttccct 360
catcctattt actgcagcaa atctctcctt agttgatgag actgtgttta tctnccttta 420
aaaccctacc tatcctgaat ggtctgtcat tgnctgcctt taaaatcctt cctctttctt 480
cctcctctat tctctaaata atgatggggc ttaagttata cccaaagctn actttacaaa 540
atatttcctc aagactttgc agaaacacca acaaaatgcc atttaaaaaa ggggattttc 600
tttaaaggaa ctctaanaca ggcaaggttc tgatgt                          636
```

```
<210> 832
<211> 466
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c

<400> 832
gatcagatta tgagttactg tttaaaagaa aaatgctgtt tattcatgct gaggtgattc 60
agttccctcc ttcttacaga agtattttaa ttcaccccac actagaaatg cagcatcttt 120
gtggacgtct ttttcacaag cctccaaggc tccttagatt gggtcgttac taaaagtaca 180
ttaaaacact cttgtttatc gaagtatatt gatgtattct aaagctagta aacttcccta 240
acgtttaatt gccctacaga tgcttctctt gctgtgggtt ttcttttgtt agtggtctga 300
aataattatt ttcctgttct attaatacat aagtgtattt tgcacaaaaa aattaacctg 360
gtcaaatagt gattaccaaa atatatatta ataatcttgg gcaaattttt gccatttata 420
ngaaaacatt tttaacccac ggntangttc tanatttatt ctttcn                466
```

```
<210> 833
<211> 405
```

```
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<400> 833
ttttaattca acccagccat gcaatgccaa ataatagaat tgctccctac cagctgaaca 60
gggaggagtc tgtgcagttt ctgacacttg ttgttgaaca tggctaaata caatgggtat 120
cgctgagact aagttgtaaa aaattaacaa atgtgctgct tggttaaaat ggctacactc 180
atctgactca ttctttattc tattttagtt ggtttgtatc ttgcctaagg tgcgtantcc 240
aactcttggt attaccctcc taatagtcat actagtantc atactccctg gtgttatgta 300
ttctctaaaa gctttaaatg tctgcattgc aaccngccat caaatattga atgggctctc 360
ttttggctgg aattacaaac tcaaaaaatg tttctcagga aaaaa          405

<210> 834
<211> 402
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (277)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c

<400> 834
gcaaacccac aggtcctaaa ctaccaaacc tgcattaaaa atttcggttg gggcgacctc 60
ggagcagaac ccaacctccg agcagtacat gctaagactt caccagtcaa agcgaactac 120
tatactcaat tgatccaata acttgaccaa cggaacaagt taccctaggg ataacagcgc 180
aatcctattc tagagtccat atcaacaata gggtttacga cctcgatgtt ggatcaggac 240
atcccgatgg tgcagccgct attaaaggtt cgtttgntca acgattaaag tcctacgtga 300
tctgagttca gaccggagta atccaggtcg gnttctatct acttcaaatt cctncctgna 360
cgaaaggaca agagaaataa gggctacttn acaaagcgcn tt                    402

<210> 835
<211> 121
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

<220>
```

```
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c

<400> 835
nttnaaaaaa aaaaaaaaaa aaaaaaaaaa aagaaaaaan aaaaaaaaaa aaaaaaaaaa 60
aaaaagggcg gccgttntaa aggatccaag cttacgtacn cgtgcatgcn acgtcanagc 120
t                                                                  121

<210> 836
<211> 411
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (357)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<400> 836
agtaagcctg ccagacacgc tgtggcggct gcctgaagct agtgagtcgc ggcgccgcgc 60
acttgtggtt gggtcagtgc cgcgcgccgc tcggtcgtta ccgcgaggcg ctggtggcct 120
tcaggctgga cggcgcgggt cagccctggt ttgccggctt ctgggtcttt gaacagccgc 180
gatgtcgatc ttcacccca ccaaccagat ccgcctaacc aatgtggccg tggtacggat 240
gaagcgcgcc aggaagcgct tcgaaatcgc ttgctacaga aacaagtcgt cggctggcgg 300
agggctttgg aaaaagactt gatgaatttt gcagacccan caangtttgt aaagttncca 360
```

aagtcagttt ccaaaaggaa attcancagg ggtttggaaa atgccaanga a   411

<210> 837
<211> 386
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c

<400> 837
gcggcagctc agcaagtggt ggaccaggcc acagaggcgg ggcagaaagc catggaccag 60
ctggccaaga ccacccagga aaccatcgac aagactgcta accaggcctc tgacaccttc 120
tctgggatcg ggaaaaaatt cggcctcctg aaatgacagc agggagactt gggtcggcct 180
cctgaaatga tagcagggag acttgggtga ccccccttcc aggcgccatc tagcacagcc 240
tggccctgat ctccgggcag ccaccacctc ctcggtctgc cccctcatta aaattcacgt 300
tcccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaaaaaa aaaaaaaaaa ngnnnn   386

<210> 838
<211> 124
<212> DNA
<213> Homo sapiens

<400> 838
gctttcaata gatcgcagcg agggagctgc tctgctacgt acgaaacccc gacccagaag 60
caggtcgtct acgaatggtt tagcgccagg ttccccacga acgtgcggtg cgtgacgggc 120
gagg   124

```
<210> 839
<211> 270
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c

<400> 839
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```
atctggttgt ggttacaatg aaaatnagaa gcattattga tggattcgca taagcncaat 60
gtgatgtcct gcgccgttct gcccccctctc ccttccaggg tgagggnctg gggtgagggt 120
taatgttcgn accagtgctg gctgttcccc tcaccctaac cctctcccca aaggncgnag 180
gggcccggtt acccaattcg ccctatagtg agtcgtatta caattcactg gccgtcgttt 240
tacaagacgn agggaggagn ntgatgaaaa                                  270
```

<210> 840
<211> 430
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (210)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c

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<400> 840
ctctacatca ccgcccgac cttagctctc accatcgctc ttctactatg aaccccctc 60
cccatacca accccctggt caacctcaac ctaggcctcc tatttattct agccacctct 120
agcctagccg tttactcaat cctctgatca gggtgagcat caaactcaaa ctacgccctg 180
atcggcgcac tgcgagcagt agcccaaacn atctcatatg aagtcaccct agccatcatt 240
cctactatca acattactaa tnngttggct cctttaacct ctccacccctt atcacaacac 300
aagaacactc ctgaatatcc tgccatcata accctttggc catatatnat tatcttccac 360
actagggana acaacgaacc cccttcgaan cttgngaaag ggaatttcna ataatcttca 420
ggttcaaatt                                                     430
```

```
<210> 841
<211> 650
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (519)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (555)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (564)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (573)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (589)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (634)
<223> n equals a,t,g, or c
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<400> 841
gccgtcatct actctaccat ctttgcaggc acactcatca cagcgctaag ctcgcactga 60
ttttttacct gagtaggcct agaaataaac atgctagctt ttattccagt tctaaccaaa 120
aaaataaacc ctcgttccac agaagctgcc atcaagtatt tcctcacgca agcaaccgca 180
tccataatcc ttctaatagc tatcctcttc aacaatatac tctccggaca atgaaccata 240
accaataata ccaatcaata ctcatcatta ataatcataa tggctatagc aataaaacta 300
```

```
ggaatagccc cctttcactt ctgagtccca gaggttaccc aaggcacccc tctgacatcc 360
ggcctgcttc ttctcacatg acaaaaacta gcccccatct caatcatata ccaaatctct 420
ccctcactag acgtaagcct tctcctcact ctctcaatct tatccatcat agtaggcagt 480
tgagggtgga ttaaaccaaa acccagctac gcaaaatcnt agcatacttc ctcaattacc 540
cacataggat gaatnaatag cagnttctac cgnacaaccc ttacataanc atttcttaaa 600
ttaactaatt atattaatcc taactactac ggantctact actaacttaa             650
```

<210> 842
<211> 509
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (455)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (482)
<223> n equals a,t,g, or c

<400> 842
```
gcctgtgtct gctaaaaaag aaaagaaagt ttcctgcatg ttcattcctg atgggcgggt 60
gtctgtctct gctcgaattg acagaaaagg attctgtgaa ggtgatgaga tttccatcca 120
tgctgacttt gagaatacat gttcccgaat tgtggtcccc aaagctgcca ttgtggcccg 180
ccacacttac cttgccaatg gccagaccaa ggtgctgact cagaagttgt catcagtcag 240
aggcaatcat attatctcag ggacatgcgc atcatggcgt ggcaagagcc ttcgggttca 300
gaagatcagg ccttctatcc tgggctgcaa catccttcga gttgaatatt ccttactgat 360
ctatgttagc gttcctggat ccaagaaggt catccttgac ctgcccctgg taattggcag 420
cagatcaggt ctaagcanca gaacatccag ctggncagcc cnaaccanct ctgaagatga 480
gntgggtaga tctgaacatc ctgataccc                                   509
```

<210> 843
<211> 158
<212> PRT

<213> Homo sapiens

<400> 843
Lys Arg Asp Trp Val Ile Pro Pro Ile Ser Cys Pro Glu Asn Glu Lys
  1   5   10   15

Gly Pro Phe Pro Lys Asn Leu Val Gln Ile Lys Ser Asn Lys Asp Lys
             20   25   30

Glu Gly Lys Val Phe Tyr Ser Ile Thr Gly Gln Gly Ala Asp Thr Pro
         35   40   45

Pro Val Gly Val Phe Ile Ile Glu Arg Glu Thr Gly Trp Leu Lys Val
     50   55   60

Thr Glu Pro Leu Asp Arg Glu Arg Ile Ala Thr Tyr Thr Leu Phe Ser
 65   70   75   80

His Ala Val Ser Ser Asn Gly Asn Ala Val Glu Asp Pro Met Glu Ile
             85   90   95

Leu Ile Thr Val Thr Asp Gln Asn Asp Asn Lys Pro Glu Phe Thr Gln
             100   105   110

Glu Val Phe Lys Gly Ser Val Met Glu Gly Ala Leu Pro Gly Thr Ser
         115   120   125

Val Met Glu Val Thr Ala Thr Asp Ala Asp Asp Gly Cys Gly Thr Pro
     130   135   140

Thr Met Pro Pro Ser Leu Thr Pro Ser Ser Ala Gln Asp Pro
145   150   155

<210> 844
<211> 601
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (358)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (383)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 844
Thr Glu Leu Leu Lys Ser Ala Ala Arg His Gly Thr Ala Glu Ser Ala
 1   5   10   15

Pro Trp Pro Arg Gly Gln Gly Trp Gln Gln Trp Gln Gln Gln Trp Arg
            20   25   30

Arg Arg Trp Xaa Ser Trp Arg Lys Asp Arg Ala Arg Thr Arg Arg Gln
            35   40   45

Glu Glu Leu Ala Leu Ser Gln Glu Pro Lys Ser Ser Ser Arg Gly Xaa
    50   55   60

Ser Pro Gly Ala Ser Pro Ala Ser Pro Thr Ser Gln Gln Phe Cys Cys
65   70   75   80

Phe Arg Leu Asp Gln Val Ile His Ser Asn Pro Ala Gly Ile Gln Gln
            85   90   95

Ala Leu Ala Gln Leu Ser Xaa Arg Gln Xaa Ser Val Thr Ala Pro Gly
            100   105   110

Gly His Pro Arg His Lys Pro Gly Pro Pro Gln Ala Pro Gln Gly Pro
        115   120   125

Ser Pro Arg Pro Pro Thr Arg Tyr Glu Pro Gln Arg Val Asn Ser Gly
    130   135   140

```
Leu Ser Ser Asp Pro His Phe Xaa Glu Pro Gly Pro Met Val Arg Gly
145                 150                 155                 160

Val Gly Gly Thr Pro Arg Asp Ser Ala Gly Val Ser Pro Phe Pro Pro
                165                 170                 175

Lys Arg Arg Glu Arg Pro Pro Arg Lys Pro Glu Leu Leu Gln Glu Glu
            180                 185                 190

Ser Leu Pro Pro Pro His Ser Ser Gly Phe Leu Gly Ser Lys Pro Glu
        195                 200                 205

Gly Pro Gly Pro Gln Ala Glu Ser Arg Asp Thr Gly Thr Glu Ala Leu
    210                 215                 220

Thr Pro His Ile Trp Asn Arg Leu His Thr Ala Thr Ser Arg Lys Ser
225                 230                 235                 240

Tyr Arg Pro Ser Ser Met Glu Pro Trp Met Glu Pro Leu Ser Pro Phe
                245                 250                 255

Glu Asp Val Ala Gly Thr Glu Met Ser Gln Ser Asp Ser Gly Val Asp
            260                 265                 270

Leu Ser Gly Asp Ser Gln Val Ser Ser Gly Pro Cys Ser Gln Arg Ser
        275                 280                 285

Ser Pro Asp Gly Gly Leu Lys Gly Ala Ala Glu Gly Pro Pro Lys Arg
    290                 295                 300

Pro Gly Gly Ser Ser Pro Leu Asn Ala Val Pro Cys Glu Gly Pro Pro
305                 310                 315                 320

Gly Ser Glu Pro Pro Arg Arg Pro Pro Pro Ala Pro His Asp Gly Asp
                325                 330                 335

Arg Lys Glu Leu Pro Arg Glu Gln Pro Leu Pro Pro Gly Pro Ile Gly
            340                 345                 350

Thr Glu Arg Ser Gln Xaa Thr Asp Arg Gly Thr Glu Pro Gly Pro Ile
        355                 360                 365

Arg Pro Ser His Arg Pro Gly Pro Pro Val Gln Phe Gly Thr Xaa Asp
    370                 375                 380

Lys Asp Ser Asp Leu Arg Leu Val Val Gly Asp Ser Leu Lys Ala Glu
385                 390                 395                 400

Lys Glu Leu Thr Ala Ser Val Thr Glu Ala Ile Pro Val Ser Arg Asp
                405                 410                 415
```

```
Trp Glu Leu Leu Pro Ser Ala Ala Ala Ser Ala Glu Pro Gln Ser Lys
            420             425             430

Asn Leu Asp Ser Gly His Cys Val Pro Glu Pro Ser Ser Ser Gly Gln
            435             440             445

Arg Leu Tyr Pro Glu Val Phe Tyr Gly Ser Ala Gly Pro Ser Ser Ser
    450             455             460

Gln Ile Ser Gly Gly Ala Met Asp Ser Gln Leu His Pro Asn Ser Gly
465             470             475             480

Gly Phe Arg Pro Gly Thr Pro Ser Leu His Pro Tyr Arg Ser Gln Pro
            485             490             495

Leu Tyr Leu Pro Pro Gly Pro Ala Pro Pro Ser Ala Leu Leu Ser Gly
            500             505             510

Val Ala Leu Lys Gly Gln Phe Leu Asp Phe Ser Thr Met Gln Ala Thr
            515             520             525

Glu Leu Gly Lys Leu Pro Ala Gly Gly Val Leu Tyr Pro Pro Pro Ser
    530             535             540

Phe Leu Tyr Ser Pro Ala Phe Cys Pro Ser Pro Leu Pro Asp Thr Ser
545             550             555             560

Leu Leu Gln Val Arg Gln Asp Leu Pro Ser Pro Ser Asp Phe Tyr Ser
            565             570             575

Thr Pro Leu Gln Pro Gly Gly Gln Ser Gly Phe Leu Pro Ser Gly Ala
            580             585             590

Pro Ala Ser Arg Cys Phe Tyr Pro Trp
            595             600
```

```
<210> 845
<211> 67
<212> PRT
<213> Homo sapiens

<400> 845
Thr Gln Lys Thr Ser Ser Leu Leu Pro Ala Leu Ser Leu Gln Leu Pro
  1             5             10             15

Leu Leu Thr Arg Phe Ser Ile Met Cys Ser Val Lys Glu Glu Ph  Trp
            20             25             30
```

Arg Val Gln Ser Ile Ile Thr Glu Leu Val Leu Lys Gly Glu Phe Gly
         35   40   45

Val Glu Glu Ala Met Lys Leu Ile Thr Gly Thr Glu Ala Lys Tyr Lys
    50   55   60

Ser Ile Asp
 65

<210> 846
<211> 146
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 846
Ser Gln Gly Pro Asp His Pro Ser Ser Gln Leu Gln Pro Leu Asn Xaa
 1   5   10   15

Ser Leu Ser His Leu Leu Val Pro Cys Leu Ser Ile Met Ser Leu Leu
            20   25   30

Asn Lys Pro Lys Ser Glu Met Thr Pro Glu Glu Leu Gln Lys Arg Glu
         35   40   45

Glu Glu Glu Phe Asn Thr Gly Pro Leu Ser Val Leu Thr Gln Ser Val
    50   55   60

Lys Asn Asn Thr Gln Val Leu Ile Asn Cys Arg Asn Asn Lys Lys Leu
 65   70   75   80

Leu Gly Arg Val Lys Ala Phe Asp Arg His Cys Asn Met Val Leu Glu
            85   90   95

Asn Val Lys Glu Met Trp Thr Glu Val Pro Lys Ser Gly Lys Gly Lys
            100   105   110

Lys Lys Ser Lys Pro Val Asn Lys Asp Arg Tyr Ile Ser Lys Met Phe
            115   120   125

Leu Arg Gly Asp Ser Val Ile Val Val Leu Arg Asn Pro Leu Ile Ala
    130   135   140

Gly Lys
145

```
<210> 847
<211> 184
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (179)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 847
Ala Arg Met Ala Ala Asp Lys Xaa Pro Ala Ala Gly Pro Arg Ser Arg
 1               5                  10                  15

Ala Ala Met Ala Gln Trp Arg Lys Lys Lys Gly Leu Arg Lys Arg Arg
                20                  25                  30

Gly Ala Ala Ser Gln Ala Arg Gly Ser Asn Ser Glu Asp Gly Glu Phe
                35                  40                  45

Glu Ile Gln Ala Glu Asp Asp Ala Arg Ala Arg Lys Leu Gly Pro Gly
     50                  55                  60

Arg Pro Leu Pro Thr Phe Pro Thr Ser Glu Cys Thr Ser Asp Val Glu
 65                  70                  75                  80

Pro Asp Thr Arg Glu Met Val Arg Ala Gln Asn Lys Lys Lys Lys Lys
                85                  90                  95

Ser Gly Gly Phe Gln Ser Met Gly Leu Ser Tyr Pro Val Phe Lys Gly
                100                 105                 110

Ile Met Lys Lys Gly Tyr Lys Val Pro Thr Pro Ile Gln Arg Lys Thr
                115                 120                 125

Ile Pro Val Ile Leu Asp Gly Lys Asp Val Val Ala Met Ala Arg Thr
     130                 135                 140

Gly Ser Gly Lys Thr Ala Cys Phe Leu Leu Pro Met Phe Glu Arg Leu
145                 150                 155                 160

Lys Thr His Ser Ala Gln Thr Gly Ala Arg Ala Ser Ser Ser Arg Arg
                165                 170                 175
```

Pro Glu Xaa Trp Pro Cys Arg Pro
            180

<210> 848
<211> 160
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 848
Ala Arg Ala Ser Ser Glu Cys Ala Arg Cys Ala Ala Ala Val Arg Thr
 1   5   10   15

Cys Arg Arg Arg His Arg His His Ala Gln Leu Arg Arg His Leu Glu
                20   25   30

Asp Ala Xaa Ser Glu Asn Phe Asp Glu Leu Leu Lys Ala Leu Gly Val
            35   40   45

Asn Ala Met Leu Arg Lys Val Ala Val Ala Ala Ala Ser Lys Pro His
    50   55   60

Val Glu Ile Arg Gln Asp Gly Asp Gln Phe Tyr Ile Lys Thr Ser Thr
65   70   75   80

Thr Val Arg Thr Thr Glu Ile Asn Phe Lys Val Gly Glu Gly Phe Glu
                85   90   95

Glu Glu Thr Val Asp Gly Arg Lys Cys Arg Ser Leu Ala Thr Trp Glu
            100   105   110

Asn Glu Asn Lys Ile His Cys Thr Gln Thr Leu Leu Glu Gly Asp Gly
            115   120   125

Pro Lys Thr Tyr Trp Thr Arg Glu Leu Ala Asn Asp Glu Leu Ile Leu
    130   135   140

Thr Phe Gly Ala Asp Asp Val Val Cys Thr Arg Ile Tyr Val Arg Glu
145   150   155   160

794

```
·<210> 849
<211> 75
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 849
Val Gln Asn Val Gly Tyr Gln Ser Lys His Cys Gly Ala Val Xaa Tyr
 1           5               10              15

Ala Arg Leu Pro Cys Glu Met Ile Gln Asp Gln Asn Lys Ala Leu Asp
             20              25              30

Cys Ser Lys Thr Gln Asn Ser Ser Arg Ala Glu Gly Gly Arg Leu Ile
         35              40              45

Trp Xaa Glu Gly Pro Lys Tyr Lys Thr Asp Gly Leu Arg Leu Glu Thr
     50              55              60

Arg Gly Leu Arg Trp Lys Ala His Val Pro Arg
 65              70              75


<210> 850
<211> 383
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (299)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 850
Ser Thr His Ala Ser Ala His Ala Ser Val Ala Asn Glu Val Ile Lys
 1           5               10              15

Cys Lys Ala Ala Val Ala Trp Glu Ala Gly Lys Pro Leu Ser Ile Glu
             20              25              30
```

795

```
Glu Ile Glu Val Ala Pro Pro Lys Ala His Glu Val Arg Ile Lys Ile
        35              40              45

Ile Ala Thr Ala Val Cys His Thr Asp Ala Tyr Thr Leu Ser Gly Ala
        50              55              60

Asp Pro Glu Gly Cys Phe Pro Val Ile Leu Gly His Glu Gly Ala Gly
65              70              75              80

Ile Val Glu Ser Val Gly Glu Gly Val Thr Lys Leu Lys Ala Gly Asp
            85              90              95

Thr Val Ile Pro Leu Tyr Ile Pro Gln Cys Gly Glu Cys Lys Phe Cys
           100             105             110

Leu Asn Pro Lys Thr Asn Leu Cys Gln Lys Ile Arg Val Thr Gln Gly
        115             120             125

Lys Gly Leu Met Pro Asp Gly Thr Ser Arg Phe Thr Cys Lys Gly Lys
    130             135             140

Thr Ile Leu His Tyr Met Gly Thr Ser Thr Phe Ser Glu Tyr Thr Val
145             150             155             160

Val Ala Asp Ile Ser Val Ala Lys Ile Asp Pro Leu Ala Pro Leu Asp
            165             170             175

Lys Val Cys Leu Leu Gly Cys Gly Ile Ser Thr Gly Tyr Gly Ala Ala
        180             185             190

Val Asn Thr Ala Lys Leu Glu Pro Gly Ser Val Cys Ala Val Phe Gly
        195             200             205

Leu Gly Gly Val Gly Leu Ala Val Ile Met Gly Cys Lys Val Ala Gly
    210             215             220

Ala Ser Arg Ile Ile Gly Val Asp Ile Asn Lys Asp Lys Phe Ala Arg
225             230             235             240

Ala Lys Glu Phe Gly Ala Thr Glu Cys Ile Asn Pro Gln Asp Phe Ser
            245             250             255

Lys Pro Ile Gln Glu Val Leu Ile Glu Met Thr Asp Gly Gly Val Asp
            260             265             270

Tyr Ser Phe Glu Cys Ile Gly Asn Val Lys Val Met Arg Ala Ala Leu
        275             280             285

Glu Ala Cys His Lys Gly Trp Gly Val Thr Xaa Val Val Gly Val Ala
    290             295             300
```

```
Ala Ser Gly Glu Glu Ile Ala Thr Arg Pro Phe Gln Leu Val Thr Gly
305                 310             315             320

Arg Thr Trp Lys Gly Thr Ala Phe Gly Gly Trp Lys Ser Val Glu Ser
                325             330             335

Val Pro Lys Leu Val Ser Glu Tyr Met Ser Lys Lys Ile Lys Val Asp
            340             345             350

Glu Phe Val Thr His Asn Leu Ser Phe Asp Glu Ile Asn Lys Ala Phe
        355             360             365

Glu Leu Met His Ser Gly Lys Ser Ile Arg Thr Val Val Lys Ile
    370             375             380
```

<210> 851
<211> 154
<212> PRT
<213> Homo sapiens

<400> 851
```
Ala Arg Ala Pro Arg Ala Thr Leu Asn Gly Pro Gly Ala Arg Gly Arg
1               5               10              15

Val Gly Val Val Val Leu Arg Pro Arg Pro Arg Gly Leu Arg Phe Pro
            20              25              30

Trp Cys Pro Gly Arg Pro Ala Ser Gly Ala Val Ser Tyr Glu Ser Ala
        35              40              45

His Ala Ala Ser Val Arg Leu Thr Leu Arg Thr Met Glu Gly Gly Phe
    50              55              60

Gly Ser Asp Phe Gly Gly Ser Gly Ser Gly Lys Leu Asp Pro Gly Leu
65              70              75              80

Ile Met Glu Gln Val Lys Val Gln Ile Ala Val Ala Asn Ala Gln Glu
                85              90              95

Leu Leu Gln Arg Met Thr Asp Lys Cys Phe Arg Lys Cys Ile Gly Lys
            100             105             110

Pro Gly Gly Ser Leu Asp Asn Ser Glu Gln Lys Cys Ile Ala Met Cys
        115             120             125

Met Asp Arg Tyr Met Asp Ala Trp Asn Thr Val Ser Arg Ala Tyr Asn
    130             135             140

Ser Arg Leu Gln Arg Glu Arg Ala Asn Met
```

```
    145                         150
```

```
<210> 852
<211> 396
<212> PRT
<213> Homo sapiens

<400> 852
Asp Ser Arg Val Asp Pro Arg Val Arg Ala Ile Ile Ala Lys Thr Phe
 1               5                  10                  15

Lys Gly Arg Gly Ile Thr Gly Val Glu Asp Lys Glu Ser Trp His Gly
                20                  25                  30

Lys Pro Leu Pro Lys Asn Met Ala Glu Gln Ile Ile Gln Glu Ile Tyr
            35                  40                  45

Ser Gln Ile Gln Ser Lys Lys Lys Ile Leu Ala Thr Pro Pro Gln Glu
        50                  55                  60

Asp Ala Pro Ser Val Asp Ile Ala Asn Ile Arg Met Pro Ser Leu Pro
 65                  70                  75                  80

Ser Tyr Lys Val Gly Asp Lys Ile Ala Thr Arg Lys Ala Tyr Gly Gln
                85                  90                  95

Ala Leu Ala Lys Leu Gly His Ala Ser Asp Arg Ile Ile Ala Leu Asp
            100                 105                 110

Gly Asp Thr Lys Asn Ser Thr Phe Ser Glu Ile Phe Lys Lys Glu His
        115                 120                 125

Pro Asp Arg Phe Ile Glu Cys Tyr Ile Ala Glu Gln Asn Met Val Ser
    130                 135                 140

Ile Ala Val Gly Cys Ala Thr Arg Asn Arg Thr Val Pro Phe Cys Ser
145                 150                 155                 160

Thr Phe Ala Ala Phe Phe Thr Arg Ala Phe Asp Gln Ile Arg Met Ala
                165                 170                 175

Ala Ile Ser Glu Ser Asn Ile Asn Leu Cys Gly Ser His Cys Gly Val
            180                 185                 190

Ser Ile Gly Glu Asp Gly Pro Ser Gln Met Ala Leu Glu Asp Leu Ala
        195                 200                 205

Met Phe Arg Ser Val Pro Thr Ser Thr Val Phe Tyr Pro Ser Asp Gly
    210                 215                 220
```

```
Val Ala Thr Glu Lys Ala Val Glu Leu Ala Ala Asn Thr Lys Gly Ile
225             230             235                         240

Cys Phe Ile Arg Thr Ser Arg Pro Glu Asn Ala Ile Ile Tyr Asn Asn
                245             250             255

Asn Glu Asp Phe Gln Val Gly Gln Ala Lys Val Val Leu Lys Ser Lys
                260             265             270

Asp Asp Gln Val Thr Val Ile Gly Ala Gly Val Thr Leu His Glu Ala
        275             280                     285

Leu Ala Ala Ala Glu Leu Leu Lys Lys Glu Lys Ile Asn Ile Arg Val
        290             295             300

Leu Asp Pro Phe Thr Ile Lys Pro Leu Asp Arg Lys Leu Ile Leu Asp
305             310             315                         320

Ser Ala Arg Ala Thr Lys Gly Arg Ile Leu Thr Val Glu Asp His Tyr
                325             330             335

Tyr Glu Gly Gly Ile Gly Glu Ala Val Ser Ser Ala Val Val Gly Glu
                340             345             350

Pro Gly Ile Thr Val Thr His Leu Ala Val Asn Arg Val Pro Arg Ser
                355             360             365

Gly Lys Pro Ala Glu Leu Leu Lys Met Phe Gly Ile Asp Arg Asp Ala
        370             375             380

Ile Ala Gln Ala Val Arg Gly Leu Ile Thr Lys Ala
385             390             395
```

<210> 853
<211> 302
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (228)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 853
```
Ser Arg Leu Gly Leu Gln Ser Cys Gly Leu Ser Thr Gln Ala Ile Thr
  1             5                 10                  15

Leu Ser Glu Thr Ala Ala Ala Leu Asp Cys Ser Leu Pro Arg Leu His
```

                    20   25   30

        Ala Arg Gln Ser Met Arg Val Thr Leu Ala Thr Ile Ala Trp Met Val
                35   40   45

        Ser Phe Val Ser Asn Tyr Ser His Thr Ala Asn Ile Leu Pro Asp Ile
                50   55   60

        Glu Asn Glu Asp Phe Ile Lys Asp Cys Val Arg Ile His Asn Lys Phe
        65   70   75   80

        Arg Ser Glu Val Lys Pro Thr Ala Ser Asp Met Leu Tyr Met Thr Trp
                        85   90   95   ,

        Asp Pro Ala Leu Ala Gln Ile Ala Lys Ala Trp Ala Ser Asn Cys Gln
                    100   105   110

        Phe Ser His Asn Thr Arg Leu Lys Pro Pro His Lys Leu His Pro Asn
                115   120   125

        Phe Thr Ser Leu Gly Glu Asn Ile Trp Thr Gly Ser Val Pro Ile Phe
                130   135   140

        Ser Val Ser Ser Ala Ile Thr Asn Trp Tyr Asp Glu Ile Gln Asp Tyr
        145   150   155   160

        Asp Phe Lys Thr Arg Ile Cys Lys Lys Val Cys Gly His Tyr Thr Gln
                        165   170   175

        Val Val Trp Ala Asp Ser Tyr Lys Val Gly Cys Ala Val Gln Phe Cys
                    180   185   190

        Pro Lys Val Ser Gly Phe Asp Ala Leu Ser Asn Gly Ala His Phe Ile
                195   200   205

        Cys Asn Tyr Gly Pro Gly Gly Asn Tyr Pro Thr Trp Pro Tyr Lys Arg
            210   215   220

        Gly Ala Thr Xaa Ser Ala Cys Pro Asn Asn Asp Lys Cys Leu Asp Asn
        225   230   235   240

        Leu Cys Val Asn Arg Gln Arg Asp Gln Val Lys Arg Tyr Tyr Ser Val
                        245   250   255

        Val Tyr Pro Gly Trp Pro Ile Tyr Pro Arg Asn Arg Tyr Thr Ser Leu
                    260   265   270

        Phe Leu Ile Val Asn Ser Val Ile Leu Ile Leu Ser Val Ile Ile Thr
                275   280   285

        Ile Leu Val Gln His Lys Tyr Pro Asn Leu Val Leu Leu Asp

800

          290   295   300

<210> 854
<211> 237
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (235)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 854
Val Pro Ala Ser Phe Ala·Ala Ala Ser Ala Val Leu Ser Ala Val Phe
 1   5   10   15

Pro Gln Glu Pro Ala Tyr Phe Leu Asn Met Glu Ser Val Val Arg Arg
             20   25   30

Cys Pro Phe Leu Ser Arg Val Pro Gln Ala Phe Leu Gln Lys Ala Gly
         35   40   45

Lys Ser Leu Leu Phe Tyr Ala Gln Asn Cys Pro Lys Met Met Glu Val
     50   55   60

Gly Ala Lys Pro Ala Pro Arg Ala Leu Ser Thr Ala Ala Val His Tyr
65   70   75   80

Gln Gln Ile Lys Glu Thr Pro Pro Ala Ser Glu Lys Asp Lys Thr Ala
             85   90   95

Lys Ala Lys Val Gln Gln Thr Pro Asp Gly Ser Gln Gln Ser Pro Asp
             100   105   110

Gly Thr Gln Leu Pro Ser Gly His Pro Leu Pro Ala Thr Ser Gln Gly
         115   120   125

Thr Ala Ser Lys Cys Pro Phe Leu Ala Ala Gln Met Asn Gln Arg Gly
     130   135   140

Ser Ser Val Phe Cys Lys Ala Ser Leu Glu Leu Gln Glu Asp Val Gln
145   150   155   160

Glu Met Asn Ala Val Arg Lys Glu Val Ala Glu Thr Ser Ala Gly Pro
             165   170   175

Ser Val Val Ser Val Lys Thr Asp Gly Gly Asp Pro Ser Gly Leu Leu
         180   185   190

```
Lys Asn Phe Gln Asp Ile Met Gln Lys Gln Arg Pro Glu Arg Val Ser
        195                 200             205

His Leu Leu Gln Asp Asn Leu Pro Lys Ser Val Ser Thr Phe Gln Tyr
        210                 215             220

Asp Arg Phe Phe Glu Lys Lys Ile Asp Glu Xaa Lys Glu
225                 230             235
```

```
<210> 855
<211> 272
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (202)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 855
Thr Pro Gly Ile Phe Thr Glu Gln Ser Met Ile Thr Phe Leu Pro Leu
  1           5                 10              15

Leu Leu Gly Leu Ser Leu Gly Cys Thr Gly Ala Gly Gly Phe Val Ala
            20              25              30

His Val Glu Ser Thr Cys Leu Leu Asp Asp Ala Gly Thr Pro Lys Asp
            35              40              45

Phe Thr Tyr Cys Ile Ser Phe Asn Lys Asp Leu Leu Thr Cys Trp Asp
        50              55              60

Pro Glu Glu Asn Lys Met Ala Pro Cys Glu Phe Gly Val Leu Asn Ser
65              70              75              80

Leu Ala Asn Val Leu Ser Gln His Leu Asn Gln Lys Asp Thr Leu Met
            85              90              95

Gln Arg Leu Arg Asn Gly Leu Gln Asn Cys Ala Thr His Thr Gln Pro
            100             105             110

Phe Trp Gly Ser Leu Thr Asn Arg Thr Arg Pro Pro Ser Val Gln Val
        115             120             125

Ala Lys Thr Thr Pro Phe Asn Thr Arg Glu Pro Val Met Leu Ala Cys
        130             135             140

Tyr Val Trp Gly Phe Tyr Pro Ala Glu Val Thr Ile Thr Trp Arg Lys
145             150             155             160
```

```
Asn Gly Lys Leu Val Met Pro His Ser Ser Ala His Lys Thr Ala Gln
            165             170                 175

Pro Asn Gly Asp Trp Thr Tyr Gln Thr Leu Ser His Leu Ala Leu Thr
            180             185                 190

Pro Ser Tyr Gly Asp Thr Tyr Thr Cys Xaa Val Glu His Ile Gly Ala
        195             200             205

Pro Glu Pro Ile Leu Arg Asp Trp Thr Pro Gly Leu Ser Pro Met Gln
    210             215             220

Thr Leu Lys Val Ser Val Ser Ala Val Thr Leu Gly Leu Gly Leu Ile
225             230             235             240

Ile Phe Ser Leu Gly Val Ile Ser Trp Arg Arg Ala Gly His Ser Ser
            245             250             255

Tyr Thr Pro Leu Pro Gly Ser Asn Tyr Ser Glu Gly Trp His Ile Ser
            260             265             270
```

```
<210> 856
<211> 153
<212> PRT
<213> Homo sapiens

<400> 856
Val Val Ala Arg Phe Ile Arg Ile Tyr Pro Leu Thr Trp Asn Gly Ser
  1         5             10              15

Leu Cys Met Arg Leu Glu Val Leu Gly Cys Ser Val Ala Pro Val Tyr
            20              25              30

Ser Tyr Tyr Ala Gln Asn Glu Val Val Ala Thr Asp Asp Leu Asp Phe
        35              40              45

Arg His His Ser Tyr Lys Asp Met Arg Gln Leu Met Lys Val Val Asn
    50              55              60

Glu Glu Cys Pro Thr Ile Thr Arg Thr Tyr Ser Leu Gly Lys Ser Ser
65              70              75              80

Arg Gly Leu Lys Ile Tyr Ala Met Glu Ile Ser Asp Asn Pro Gly Glu
            85              90              95
```

```
His Glu Leu Gly Glu Pro Glu Phe Arg Tyr Thr Ala Gly Ile His Gly
              100             105             110

Asn Glu Val Leu Gly Arg Glu Leu Leu Leu Leu Leu Met Gln Tyr Leu
          115             120             125

Cys Arg Glu Tyr Arg Asp Gly Asn Pro Arg Val Arg Ser Trp Cys Arg
      130             135             140

Thr His Ala Ser Thr Trp Cys Pro His
145             150
```


<210> 857
<211> 258
<212> PRT
<213> Homo sapiens

<400> 857
```
Cys Leu Ser Gln Lys Ala Val Arg Ala Pro Arg Phe Leu Arg Gly Leu
  1             5              10                      15

Pro Ser Gly Arg Val Asn Cys Phe Leu Gln Ala Gly His Gly Ala Ser
              20             25             30

Arg Ser Gln Gly Ser Gly Leu Cys Gln Met Leu Lys Glu Gly Ala Lys
          35             40             45

His Phe Ser Gly Leu Glu Glu Ala Val Tyr Arg Asn Ile Gln Ala Cys
      50             55             60

Lys Glu Leu Ala Gln Thr Thr Arg Thr Ala Tyr Gly Pro Asn Gly Met
 65             70             75             80

Asn Lys Met Val Ile Asn His Leu Glu Lys Leu Phe Val Thr Asn Asp
              85             90             95

Ala Ala Thr Ile Leu Arg Glu Leu Glu Val Gln His Pro Ala Ala Lys
              100            105            110

Met Ile Val Met Ala Ser His Met Gln Glu Gln Glu Val Gly Asp Gly
          115            120            125

Thr Asn Phe Val Leu Val Phe Ala Gly Ala Leu Leu Glu Leu Ala Glu
      130            135            140

Glu Leu Leu Arg Ile Gly Leu Ser Val Ser Glu Val Ile Glu Gly Tyr
145            150            155            160

Glu Ile Ala Cys Arg Lys Ala His Glu Ile Leu Pro Asn Leu Val Cys
```

804

```
                    165                 170                 175

    Cys Ser Ala Lys Asn Leu Arg Asp Ile Asp Glu Val Ser Ser Leu Leu
                180                 185                 190

    Arg Thr Ser Ile Met Ser Lys Gln Tyr Gly Asn Glu Val Phe Leu Ala
                195                 200                 205

    Lys Leu Ile Ala Gln Ala Cys Val Ser Ile Phe Pro Asp Ser Gly His
        210                 215                 220

    Phe Asn Val Asp Asn Ile Arg Val Cys Lys Ile Leu Gly Ser Gly Ile
    225                 230                 235                 240

    Ser Ser Ser Ser Val Leu His Gly Met Val Phe Lys Lys Glu Thr Glu
                245                 250                 255

    Val Met
```

```
<210> 858
<211> 143
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 858
Pro Asp Ser Leu Pro Pro Pro Ser Pro Arg Leu Pro Ala Xaa Gly Pro
    1               5               10              15

Glu Phe Pro Gly Arg Pro Thr Arg Pro Glu Arg Ser Pro Ser Leu Gly
                20              25              30

Ile Pro Lys Cys Phe His Ser Val Ile Arg Thr Glu His Arg Gly Leu
        35              40              45

Thr Met Glu Phe Gly Leu Ser Trp Ile Phe Leu Ala Ala Ile Leu Lys
    50              55              60

Gly Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
```

805

```
    65                    70                    75                    80
Lys Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
                85                    90                    95

Phe Ser Asn Ala Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly
                100                   105                   110

Leu Glu Trp Val Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr
                115                   120                   125

Asp Tyr Ala Ala Pro Val Xaa Arg Gln Ile His His Leu Lys Arg
        130                   135                   140
```

<210> 859
<211> 135
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (133)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 859
```
Val Thr Met Ala Gln Gln Ala Ala Asp Lys Tyr Leu Tyr Val Asp Lys
    1           5                   10                    15

Asn Phe Ile Asn Asn Pro Leu Ala Gln Ala Asp Trp Ala Ala Lys Lys
                20                    25                    30

Leu Val Trp Val Pro Ser Asp Lys Ser Gly Phe Glu Pro Ala Ser Leu
                35                    40                    45

Lys Glu Glu Val Gly Glu Glu Ala Ile Val Glu Leu Val Glu Asn Gly
        50                    55                    60

Lys Lys Val Lys Val Asn Lys Asp Asp Ile Gln Lys Met Asn Pro Pro
    65                    70                    75                    80

Lys Phe Ser Lys Val Glu Asp Met Ala Glu Leu Thr Cys Leu Asn Glu
                85                    90                    95

Ala Ser Val Leu His Asn Leu Lys Glu Arg Tyr Tyr Ser Gly Leu Ile
```

                    100   105   110

Tyr Val Ser Gly Cys Arg Gly Thr Pro Gln Ala Gly Ser Glu Gly Ser
        115   120   125

Glu Val Gly Xaa Xaa Ala Gly
    130   135

<210> 860
<211> 52
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 860
Ala Xaa Leu Ile Lys Thr Arg Val Leu Ile Tyr Asn Lys Ser Asn Phe
 1   5   10   15

Ser Leu Ser Leu Gly Thr Ser Asn Cys Thr Pro Gln Ile Thr Asp Thr
            20   25   30

Ser Glu Phe Phe Met Val Lys Lys Ala Pro Thr Leu Thr Tyr Lys Cys
            35   40   45

Gly Pro Arg Asn
        50

<210> 861
<211> 321
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 861
Ala His Gly Val Thr Ser Ala Pro Asp Asn Arg Pro Ala Leu Gly Ser
 1   5   10   15

Thr Xaa Pro Pro Val His Asn Val Thr Ser Ala Ser Gly Ser Ala Ser
            20   25   30

Gly Ser Ala Ser Thr Leu Val His Asn Gly Thr Ser Ala Arg Ala Thr
         35   40   45

Thr Thr Pro Ala Ser Lys Ser Thr Pro Phe Ser Ile Pro Ser His His
     50   55   60

Ser Asp Thr Pro Thr Thr Leu Ala Ser His Ser Thr Lys Thr Asp Ala
65   70   75   80

Ser Ser Thr His His Ser Thr Val Pro Pro Leu Thr Ser Ser Asn His
             85   90   95

Ser Thr Ser Pro Gln Leu Ser Thr Gly Val Ser Phe Phe Phe Leu Ser
             100   105   110

Phe His Ile Ser Asn Leu Gln Phe Asn Ser Ser Leu Glu Asp Pro Ser
         115   120   125

Thr Asp Tyr Tyr Gln Glu Leu Gln Arg Asp Ile Ser Glu Met Phe Leu
     130   135   140

Gln Ile Tyr Lys Gln Gly Gly Phe Leu Gly Leu Ser Asn Ile Lys Phe
145   150   155   160

Arg Pro Gly Ser Val Val Val Gln Leu Thr Leu Ala Phe Arg Glu Gly
             165   170   175

Thr Ile Asn Val His Asp Val Glu Thr Gln Phe Asn Gln Tyr Lys Thr
             180   185   190

Glu Ala Ala Ser Arg Tyr Asn Leu Thr Ile Ser Asp Val Ser Val Ser
         195   200   205

Asp Val Pro Phe Pro Phe Ser Ala Gln Ser Gly Ala Gly Val Pro Gly
     210   215   220

Trp Gly Ile Ala Leu Leu Val Leu Val Cys Val Leu Val Ala Leu Ala
225   230   235   240

Ile Val Tyr Leu Ile Ala Leu Ala Val Cys Gln Cys Arg Arg Lys Asn
             245   250   255

Tyr Gly Gln Leu Asp Ile Phe Pro Ala Arg Asp Thr Tyr His Pro Met
             260   265   270

Ser Glu Tyr Pro Thr Tyr His Thr His Gly Arg Tyr Val Pro Pro Ser
         275   280   285

Ser Thr Asp Arg Ser Pro Tyr Glu Lys Val Ser Ala Gly Asn Gly Gly
     290   295   300

Ser Ser Leu Ser Tyr Thr Asn Pro Ala Val Ala Ala Thr Ser Ala Asn
305   310   315   320

Leu

<210> 862
<211> 327
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (307)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 862
Phe Gly Thr Ser Leu Thr Gln Val Leu Leu Gly Ala Gly Glu Asn Thr
 1   5   10   15

Lys Thr Asn Leu Glu Ser Ile Leu Ser Tyr Pro Lys Asp Phe Thr Cys
            20   25   30

Val His Gln Ala Leu Lys Gly Phe Thr Thr Lys Gly Val Thr Ser Val
        35   40   45

Ser Gln Ile Phe His Ser Pro Asp Leu Ala Ile Arg Asp Thr Phe Val
    50   55   60

Asn Ala Ser Arg Thr Leu Tyr Ser Ser Ser Pro Arg Val Leu Ser Asn
 65   70   75   80

Asn Ser Asp Ala Asn Leu Glu Leu Ile Asn Thr Trp Val Ala Lys Asn
                85   90   95

Thr Asn Asn Lys Ile Ser Arg Leu Leu Asp Ser Leu Pro Ser Asp Thr
            100   105   110

Arg Leu Val Leu Leu Asn Ala Ile Tyr Leu Ser Ala Lys Trp Lys Thr
        115   120   125

Thr Phe Asp Pro Lys Lys Thr Arg Met Glu Pro Phe His Phe Lys Asn
    130   135   140

Ser Val Ile Lys Val Pro Met Met Asn Ser Lys Lys Tyr Pro Val Ala
145   150   155   160

His Phe Ile Asp Gln Thr Leu Lys Ala Lys Val Gly Gln Leu Gln Leu

```
                    165                    170                    175.

Ser His Asn Leu Ser Leu Val Ile Leu Val Pro Gln Asn Leu Lys His
            180                    185                    190

Arg Leu Glu Asp Met Glu Gln Ala Leu Ser Pro Ser Val Phe Lys Ala
            195                    200                    205

Ile Met Glu Lys Leu Glu Met Ser Lys Phe Gln Pro Thr Leu Leu Thr
    210                    215                    220

Leu Pro Arg Ile Lys Val Thr Thr Ser Gln Asp Met Leu Ser Ile Met
225                    230                    235                    240

Glu Lys Leu Glu Phe Phe Asp Phe Ser Tyr Asp Leu Asn Leu Cys Gly
            245                    250                    255

Leu Thr Glu Asp Pro Asp Leu Gln Val Ser Ala Met Gln His Gln Thr
            260                    265                    270

Val Leu Glu Leu Thr Glu Thr Gly Val Glu Ala Ala Ala Ala Ser Ala
            275                    280                    285

Ile Ser Val Ala Arg Thr Leu Leu Val Phe Glu Val Gln Gln Pro Phe
            290                    295                    300

Leu Phe Xaa Leu Trp Asp Gln Gln His Lys Phe Pro Val Phe Met Gly
305                    310                    315                    320

Arg Val Tyr Asp Pro Arg Ala
                325
```

```
<210> 863
<211> 86
<212> PRT
<213> Homo sapiens

<400> 863
Tyr Tyr Ile Val His Leu Lys Leu Thr Glu Arg Val Asn Leu Lys Cys
  1                 5                   10                   15

Ser His His Thr Asn Pro Lys Val Thr Met Phe Ser Pro His Lys Pro
            20                    25                    30

Lys Gly Asn Tyr Val Leu Ile S r Leu Ile Val Val Thr Ile Ser Gln
            35                    40                    45

Cys Ile His Leu Pro Lys His Tyr Val Val Tyr Leu Glu Tyr Ile Ile
    50                    55                    60
```

810

Leu Phe Ile Asn Tyr Thr Ser Ile Lys Leu Lys Glu Gly Ile Thr Asn
65   70   75   80

Ser His Lys Ile Gln Ile
            85

<210> 864
<211> 130
<212> PRT
<213> Homo sapiens

<400> 864
Leu Thr Gln Gln Gln Gln Pro Ala Thr Gly Pro Gln Pro Ser Leu Gly
 1   5   10   15

Val Ser Phe Gly Thr Pro Phe Gly Ser Gly Ile Gly Thr Gly Leu Gln
            20   25   30

Ser Ser Gly Leu Gly Ser Ser Asn Leu Gly Gly Phe Gly Thr Ser Ser
        35   40   45

Gly Phe Gly Cys Ser Thr Thr Gly Ala Ser Thr Phe Gly Phe Gly Thr
    50   55   60

Thr Asn Lys Pro Ser Gly Ser Leu Ser Ala Gly Phe Gly Ser Ser Ser
65   70   75   80

Thr Ser Gly Phe Asn Phe Ser Asn Pro Gly Ile Thr Ala Ser Ala Gly
            85   90   95

Leu Thr Phe Gly Val Ser Asn Pro Ala Ser Ala Gly Phe Gly Thr Gly
            100   105   110

Gly Gln Leu Leu Gln Leu Lys Lys Pro Pro Ala Gly Asn Lys Arg Gly
        115   120   125

Lys Arg
    130

<210> 865
<211> 78
<212> PRT
<213> Homo sapiens

<400> 865
Ser Glu Trp Lys Ile Lys Gly Pro Ser Ser Pro Leu Ala S r Leu Pro

```
        1                    5                    10                   15
      Gly Arg Arg His Gly Gly Ser Ser Ala Thr Gly Ala Cys Gly Glu Ala
                20                  25                  30

      Met Ala Ala Ala Glu Gly Ser Ser Gly Pro Ala Gly Leu Thr Leu Gly
                35                  40                  45

      Arg Ser Phe Ser Asn Tyr Arg Pro Phe Glu Pro Gln Ala Leu Gly Leu
           50                  55                  60

      Ser Pro Ser Trp Arg Leu Thr Gly Phe Ser Gly Met Lys Gly
      65                  70                  75
```

<210> 866
<211> 529
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (517)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 866
```
      Pro Pro Pro Glu Pro Arg Ala Xaa Met Ala Glu Asn Pro Ser Leu Glu
        1                 5                  10                  15

      Asn His Arg Ile Lys Ser Phe Lys Asn Lys Gly Arg Asp Val Glu Thr
                      20                  25                  30

      Met Arg Arg His Arg Asn Glu Val Thr Val Glu Leu Arg Lys Asn Lys
                35                  40                  45

      Arg Asp Glu His Leu Leu Lys Lys Arg Asn Val Pro Gln Glu Glu Ser
           50                  55                  60

      Leu Glu Asp Ser Asp Val Asp Ala Asp Phe Lys Ala Gln Asn Val Thr
      65                  70                  75                  80

      Leu Glu Ala Ile Leu Gln Asn Ala Thr Ser Asp Asn Pro Val Val Gln
                      85                  90                  95

      Leu Ser Ala Val Gln Ala Ala Arg Lys Leu Leu Ser Ser Asp Arg Asn
```

812

```
              100                    105                    110

    Pro Pro Ile Asp Asp Leu Ile Lys Ser Gly Ile Leu Pro Ile Leu Val
            115                 120                 125

    Lys Cys Leu Glu Arg Asp Asp Asn Pro Ser Leu Gln Phe Glu Ala Ala
            130                 135                 140

    Trp Ala Leu Thr Asn Ile Ala Ser Gly Thr Ser Ala Gln Thr Gln Ala
    145                 150                 155                 160

    Val Val Gln Ser Asn Ala Val Pro Leu Phe Leu Arg Leu Leu Arg Ser
                    165                 170                 175

    Pro His Gln Asn Val Cys Glu Gln Ala Val Trp Ala Leu Gly Asn Ile
                    180                 185                 190

    Ile Gly Asp Gly Pro Gln Cys Arg Asp Tyr Val Ile Ser Leu Gly Val
            195                 200                 205

    Val Lys Pro Leu Leu Ser Phe Ile Ser Pro Ser Ile Pro Ile Thr Phe
        210                 215                 220

    Leu Arg Asn Val Thr Trp Val Ile Val Asn Leu Cys Arg Asn Lys Asp
    225                 230                 235                 240

    Pro Pro Pro Pro Met Glu Thr Val Gln Glu Ile Leu Pro Ala Leu Cys
                    245                 250                 255

    Val Leu Ile Tyr His Thr Asp Ile Asn Ile Leu Val Asp Thr Val Trp
                    260                 265                 270

    Ala Leu Ser Tyr Leu Thr Asp Gly Gly Asn Glu Gln Ile Gln Met Val
                275                 280                 285

    Ile Asp Ser Gly Val Val Pro Phe Leu Val Pro Leu Leu Ser His Gln
        290                 295                 300

    Glu Val Lys Val Gln Thr Ala Ala Leu Arg Ala Val Gly Asn Ile Val
    305                 310                 315                 320

    Thr Gly Thr Asp Glu Gln Thr Gln Val Val Leu Asn Cys Asp Val Leu
                325                 330                 335

    Ser His Phe Pro Asn Leu Leu Ser His Pro Lys Glu Lys Ile Asn Lys
                340                 345                 350

    Glu Ala Val Trp Phe Leu Ser Asn Ile Thr Ala Gly Asn Gln Gln Gln
                355                 360                 365

    Val Gln Ala Val Ile Asp Ala Gly Leu Ile Pro Met Ile Ile His Gln
```

```
                370                      375                 380

    Leu Ala Lys Gly Asp Phe Gly Thr Gln Lys Glu Ala Ala Trp Ala Ile
    385             390             395                         400

    Ser Asn Leu Thr Ile Ser Gly Arg Lys Asp Gln Val Glu Tyr Leu Val
                405                 410                     415

    Gln Gln Asn Val Ile Pro Pro Phe Cys Asn Leu Leu Ser Val Lys Asp
                420                 425                     430

    Ser Gln Val Val Gln Val Val Leu Asp Gly Leu Lys Asn Ile Leu Ile
            435                 440                 445

    Met Ala Gly Asp Glu Ala Ser Thr Ile Ala Glu Ile Ile Glu Glu Cys
        450                 455                 460

    Gly Gly Leu Glu Lys Ile Glu Val Leu Gln Gln His Glu Asn Glu Asp
    465                 470                 475                 480

    Ile Tyr Lys Leu Ala Phe Glu Ile Ile Asp Gln Tyr Phe Ser Gly Asp
                485                 490                     495

    Asp Ile Asp Glu Asp Pro Cys Leu Ile Pro Glu Ala Thr Gln Gly Gly
                500                 505                 510

    Thr Tyr Asn Phe Xaa Pro Thr Ala Asn Leu Gln Thr Lys Glu Phe Asn
            515                 520                 525

    Phe
```

<210> 867
<211> 237
<212> PRT
<213> Homo sapiens

<400> 867
```
    Arg Pro Gly Pro Val Arg Arg Arg Gly Lys Val Glu Leu Ile Lys Phe
    1               5                   10                  15

    Val Arg Val Gln Trp Arg Arg Pro Gln Val Glu Trp Arg Arg Arg Arg
                20                  25                  30

    Trp Gly Pro Gly Pro Gly Ala Ser Met Ala Gly Ser Glu Glu Leu Gly
            35                  40                  45

    Leu Arg Glu Asp Thr Leu Arg Val Leu Ala Ala Phe Leu Arg Arg Gly
        50                  55                  60
```

```
Glu Ala Ala Gly Ser Pro Val Pro Thr Pro Pro Arg Ser Pro Ala Gln
65              70          75              80

Glu Glu Pro Thr Asp Phe Leu Ser Arg Leu Arg Arg Cys Leu Pro Cys
                85          90              95

Ser Leu Gly Arg Gly Ala Ala Pro Ser Glu Ser Pro Arg Pro Cys Ser
            100         105             110

Leu Pro Ile Arg Pro Cys Tyr Gly Leu Glu Pro Gly Pro Ala Thr Pro
        115         120             125

Asp Phe Tyr Ala Leu Val Ala Gln Arg Leu Glu Gln Leu Val Gln Glu
    130             135             140

Gln Leu Lys Ser Pro Pro Ser Pro Glu Leu Gln Gly Pro Pro Ser Thr
145             150             155             160

Glu Lys Glu Ala Ile Leu Arg Arg Leu Val Ala Leu Leu Glu Glu Glu
            165             170             175

Ala Glu Val Ile Asn Gln Lys Leu Ala Ser Asp Pro Ala Leu Arg Thr
            180             185             190

Ser Trp Ser Ala Cys Pro Pro Thr Leu Ser Pro Ala Trp Trp Ser Cys
        195             200             205

Ser Val Ala Gly Met Thr Ala Leu Ala Gln Ala Glu His Ala Pro Gly
    210             215             220

Pro Arg Leu Leu Pro Arg Ser Pro Trp Pro Ala Trp Pro
225             230             235
```

```
<210> 868
<211> 196
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<400> 868
Leu Ser Val Ser Ala Xaa Ala Ala Xaa Val Ala Ala Ala Ala Ile His
 1            5                  10                 15

Ser Asp Ser Ala Ala Ala Pro Gly Gly Gly Gly Ala Ala Arg Asp Phe
            20              25                 30

Phe Phe Phe Gln Thr Asp Arg Gly Ala Ala Ala Asp Met Ser Thr Pro
        35              40                 45

Ala Arg Arg Arg Leu Met Arg Asp Phe Lys Arg Leu Gln Glu Asp Pro
    50              55              60

Pro Val Gly Val Ser Gly Ala Pro Ser Glu Asn Asn Ile Met Gln Trp
65              70              75                      80

Asn Ala Val Ile Phe Gly Pro Glu Gly Thr Pro Phe Glu Asp Gly Thr
            85              90                      95

Phe Lys Leu Val Ile Glu Phe Ser Glu Glu Tyr Pro Asn Lys Pro Pro
        100             105             110

Thr Val Arg Phe Leu Ser Lys Met Phe His Pro Asn Val Tyr Ala Asp
        115             120             125

Gly Ser Ile Cys Leu Asp Ile Leu Gln Asn Arg Trp Ser Pro Thr Tyr
    130             135             140

Asp Val Ser Ser Ile Leu Thr Ser Ile Gln Ser Leu Leu Asp Glu Pro
145             150             155                 160

Asn Pro Asn Ser Pro Ala Asn Ser Gln Ala Ala Gln Leu Tyr Gln Glu
            165             170             175

Asn Lys Arg Glu Tyr Glu Lys Arg Val Ser Ala Ile Val Glu Gln Ser
            180             185             190

Trp Asn Asp Ser
            195


<210> 869
<211> 544
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 869
Ala Asp Ala Trp Val Ala Xaa Ala Xaa Ala Ser Ser Gly Leu Val Val
1   5   10   15

Ala Arg Pro Thr Ser Ala Val Pro Ala Glu Pro Arg Pro Phe Arg Pro
            20   25   30

Ser Pro Pro His Leu Ala Ala Met Arg Leu Arg Arg Leu Ala Leu Phe
            35   40   45

Pro Gly Val Ala Leu Leu Leu Ala Ala Ala Arg Leu Ala Ala Ala Ser
    50   55   60

Asp Val Leu Glu Leu Thr Asp Asp Asn Phe Glu Ser Arg Ile Ser Asp
65   70   75   80

Thr Gly Ser Ala Gly Leu Met Leu Val Glu Phe Phe Ala Pro Trp Cys
                85   90   95

Gly His Cys Lys Arg Leu Ala Pro Glu Tyr Glu Ala Ala Ala Thr Arg
            100   105   110

Leu Lys Gly Ile Val Pro Leu Ala Lys Val Asp Cys Thr Ala Asn Thr
            115   120   125

Asn Thr Cys Asn Lys Tyr Gly Val Ser Gly Tyr Pro Thr Leu Lys Ile
    130   135   140

Phe Arg Asp Gly Glu Glu Ala Gly Ala Tyr Asp Gly Pro Arg Thr Ala
145   150   155   160

Asp Gly Ile Val Ser His Leu Lys Lys Gln Ala Gly Pro Ala Ser Val
            165   170   175

Pro Leu Arg Thr Glu Glu Glu Phe Lys Lys Phe Ile Ser Asp Lys Asp
            180   185   190

Ala Ser Ile Val Gly Phe Phe Asp Asp Ser Phe Ser Glu Ala His Ser
            195   200   205

Glu Phe Leu Lys Ala Ala Ser Asn Leu Arg Asp Asn Tyr Arg Phe Ala
    210   215   220

His Thr Asn Val Glu Ser Leu Val Asn Glu Tyr Asp Asp Asn Gly Glu
225   230   235   240

817

```
Gly Ile Ile Leu Phe Arg Pro Ser His Leu Thr Asn Lys Phe Glu Asp
              245             250             255

Lys Thr Val Ala Tyr Thr Glu Gln Lys Met Thr Ser Gly Lys Ile Lys
              260             265             270

Lys Phe Ile Gln Glu Asn Ile Phe Gly Ile Cys Pro His Met Thr Glu
              275             280             285

Asp Asn Lys Asp Leu Ile Gln Gly Lys Asp Leu Leu Ile Ala Tyr Tyr
    290             295             300

Asp Val Asp Tyr Glu Lys Asn Ala Lys Gly Ser Asn Tyr Trp Arg Asn
305             310             315             320

Arg Val Met Met Val Ala Lys Lys Phe Leu Asp Ala Gly His Lys Leu
              325             330             335

Asn Phe Ala Val Ala Ser Arg Lys Thr Phe Ser His Glu Leu Ser Asp
              340             345             350

Phe Gly Leu Glu Ser Thr Ala Gly Glu Ile Pro Val Val Ala Ile Arg
              355             360             365

Thr Ala Lys Gly Glu Lys Phe Val Met Gln Glu Glu Phe Ser Arg Asp
    370             375             380

Gly Lys Ala Leu Glu Arg Phe Leu Gln Asp Tyr Phe Asp Gly Asn Leu
385             390             395             400

Lys Arg Tyr Leu Lys Ser Glu Pro Ile Pro Glu Ser Asn Asp Gly Pro
              405             410             415

Val Lys Val Val Val Ala Glu Asn Phe Asp Glu Ile Val Asn Asn Glu
              420             425             430

Asn Lys Asp Val Leu Ile Glu Phe Tyr Ala Pro Trp Cys Gly His Cys
    435             440             445

Lys Asn Leu Glu Pro Lys Tyr Lys Glu Leu Gly Glu Lys Leu Ser Lys
    450             455             460

Asp Pro Asn Ile Val Ile Ala Lys Met Asp Ala Thr Ala Asn Asp Val
465             470             475             480

Pro Ser Pro Tyr Glu Val Arg Gly Phe Pro Thr Il  Tyr Phe Ser Pro
              485             490             495

Ala Asn Lys Lys Leu Asn Pro Lys Lys Tyr Glu Gly Gly Arg Glu Leu
              500             505             510
```

```
Ser Asp Phe Ile Ser Tyr Leu Gln Arg Glu Ala Thr Asn Pro Pro Val
        515                 520                 525

Ile Gln Glu Glu Lys Pro Lys Lys Lys Lys Ala Gln Glu Asp Leu
        530                 535                 540
```

<210> 870
<211> 111
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 870

```
Arg Arg Xaa Ala Ile Phe Thr Cys Glu Val Pro Gly Val Tyr Tyr Phe
  1               5                 10                      15

Xaa Tyr His Val His Cys Lys Gly Gly Asn Val Trp Val Ala Leu Phe
            20                  25                  30

Lys Asn Asn Glu Pro Val Met Tyr Thr Tyr Asp Glu Tyr Lys Lys Gly
        35                  40                  45

Phe Leu Asp Gln Ala Ser Gly Ser Ala Val Leu Leu Leu Arg Pro Gly
    50                  55                  60

Asp Arg Cys Ser Ser Arg Cys Pro Gln Asn Arg Leu Gln Asp Cys Met
 65                  70                  75                      80

Pro Gly Ser Met Ser Thr Pro Pro Phe Gln Asp Ile Tyr Cys Ile Pro
                85                  90                      95

Cys Lys Asn Lys Lys Thr Lys Asn Lys Glu Lys Lys Glu Ile Leu
            100                 105                 110
```

<210> 871
<211> 124
<212> PRT
<213> Homo sapiens

<400> 871
Gly Lys Thr Glu Val Asn Tyr Thr Gln Leu Val Asp Leu His Ala Arg
  1   5   10   15

Tyr Ala Glu Cys Gly Leu Arg Ile Leu Ala Phe Pro Cys Asn Gln Phe
                 20   25   30

Gly Lys Gln Glu Pro Gly Ser Asn Glu Glu Ile Lys Glu Phe Ala Ala
                 35   40   45

Gly Tyr Asn Val Lys Phe Asp Met Phe Ser Lys Ile Cys Val Asn Gly
     50   55   60

Asp Asp Ala His Pro Leu Trp Lys Trp Met Lys Ile Gln Pro Lys Gly
 65   70   75   80

Lys Gly Ile Leu Gly Asn Ala Ile Lys Trp Asn Phe Thr Lys Phe Leu
                 85   90   95

Ile Asp Lys Asn Gly Cys Val Val Lys Arg Tyr Gly Pro Met Glu Glu
                100   105   110

Pro Leu Val Ile Glu Lys Asp Leu Pro His Tyr Phe
                115   120

<210> 872
<211> 35
<212> PRT
<213> Homo sapiens

<400> 872
Ser Gln His Phe Gly Arg Pro Arg Gln Ala Glu His Leu Lys Glu Phe
  1   5   10   15

Lys Thr Ser Val Ala Asn Val Val Asn Pro Val Ser Thr Lys Asn Thr
                 20   25   30

Lys Ile Val
          35

<210> 873
<211> 420

```
<212> PRT
<213> Homo sapiens

<400> 873
Val Cys Leu Gln Leu Cys Gln Ser Thr Val Ser Cys Pro Leu Gly Tyr
 1               5                  10                  15

Leu Ala Ser Thr Ala Thr Asn Asp Cys Gly Cys Thr Thr Thr Thr Cys
             20                  25                  30

Leu Pro Asp Lys Val Cys Val His Arg Ser Thr Ile Tyr Pro Val Gly
         35                  40                  45

Gln Phe Trp Glu Glu Gly Cys Asp Val Cys Thr Cys Thr Asp Met Glu
     50                  55                  60

Asp Ala Val Met Gly Leu Arg Val Ala Gln Cys Ser Gln Lys Pro Cys
65                  70                  75                  80

Glu Asp Ser Cys Arg Ser Gly Phe Thr Tyr Val Leu His Glu Gly Glu
                 85                  90                  95

Cys Cys Gly Arg Cys Leu Pro Ser Ala Cys Glu Val Val Thr Gly Ser
             100                 105                 110

Pro Arg Gly Asp Ser Gln Ser Ser Trp Lys Ser Val Gly Ser Gln Trp
         115                 120                 125

Ala Ser Pro Glu Asn Pro Cys Leu Ile Asn Glu Cys Val Arg Val Lys
     130                 135                 140

Glu Glu Val Phe Ile Gln Gln Arg Asn Val Ser Cys Pro Gln Leu Glu
145                 150                 155                 160

Val Pro Val Cys Pro Ser Gly Phe Gln Leu Ser Cys Lys Thr Ser Ala
             165                 170                 175

Cys Cys Pro Ser Cys Arg Cys Glu Arg Met Glu Ala Cys Met Leu Asn
             180                 185                 190

Gly Thr Val Ile Gly Pro Gly Lys Thr Val Met Ile Asp Val Cys Thr
         195                 200                 205

Thr Cys Arg Cys Met Val Gln Val Gly Val Ile Ser Gly Phe Lys Leu
     210                 215                 220

Glu Cys Arg Lys Thr Thr Cys Asn Pro Cys Pro Leu Gly Tyr Lys Glu
225                 230                 235                 240

Glu Asn Asn Thr Gly Glu Cys Cys Gly Arg Cys Leu Pro Thr Ala Cys
                 245                 250                 255
```

```
Thr Ile Gln Leu Arg Gly Gly Gln Ile Met Thr Leu Lys Arg Asp Glu
            260             265         270

Thr Leu Gln Asp Gly Cys Asp Thr His Phe Cys Lys Val Asn Glu Arg
            275         280             285

Gly Glu Tyr Phe Trp Glu Lys Arg Val Thr Gly Cys Pro Pro Phe Asp
    290             295         300

Glu His Lys Cys Leu Ala Glu Gly Gly Lys Ile Met Lys Ile Pro Gly
305             310         315             320

Thr Cys Cys Asp Thr Cys Glu Glu Pro Glu Cys Asn Asp Ile Thr Ala
            325         330             335

Arg Leu Gln Tyr Val Lys Val Gly Ser Cys Lys Ser Glu Val Glu Val
            340         345             350

Asp Ile His Tyr Cys Gln Gly Lys Cys Ala Ser Lys Ala Met Tyr Ser
        355         360             365

Ile Asp Ile Asn Asp Val Gln Asp Gln Cys Ser Cys Cys Ser Pro Thr
    370             375         380

Arg Thr Glu Pro Met Gln Val Ala Leu His Cys Thr Asn Gly Ser Val
385             390             395             400

Val Tyr His Glu Val Leu Asn Ala Met Glu Cys Lys Cys Ser Pro Arg
            405             410             415

Lys Cys Ser Lys
            420
```

<210> 874
<211> 151
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

```
<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 874
Arg Gln Val Pro His Glu Arg Ala Val Arg Asp Gly Arg Gly Gly Gly
 1               5                  10                  15


Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser
             20                  25                  30


Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln
         35                  40                  45


Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala
     50                  55                  60


Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr
 65                  70                  75                  80


Asp Ser Pro Phe Pro Asn Ser Cys Ala Xaa Gly Met Ala Asn Gly Asp
             85                  90                  95


Ala Pro Cys Met Gly Ala Xaa Lys Arg Gly Gly Cys Gly Gly Tyr Ala
             100                 105                 110


Gln Trp Thr Arg Tyr Thr Cys Gln Arg Pro Ser Ala Arg Ser Phe Arg
         115                 120                 125


Phe Leu Pro Phe Leu Ser Arg His Val Arg Arg Leu Ser Pro Xaa Ser
     130                 135                 140


Ser Lys Ser Val Gly Ser Leu
145                 150




<210> 875
<211> 95
<212> PRT
<213> Homo sapiens

<400> 875
Ala Leu Asn Leu Asn Ser Gln Leu Asn Ile Pro Lys Asp Thr Ser Gln
 1               5                  10                  15


Leu Lys Lys His Ile Thr Leu Leu Cys Asp Arg Leu Ser Lys Gly Gly
             20                  25                  30


Arg Leu Cys Leu Ser Thr Asp Ala Ala Ala Pro Gln Thr Met Val Met
```

823


```
                 35                    40                    45

     Pro Gly Gly Cys Thr Thr Ile Pro Glu Ser Asp Leu Glu Glu Arg Ser
         50                    55                    60

     Val Glu Gln Asp Ser Thr Glu Leu Phe Thr Asn His Arg His Leu Thr
     65                    70                    75                    80

     Ala Glu Thr Pro Arg Pro Val Ser Pro Leu Gln Gly Val Ser Glu
                         85                    90                    95
```


<210> 876
<211> 238
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 876
```
Thr Lys Lys Ala Leu Glu Xaa Ser Asn Xaa Arg Phe Ala Ala Xaa Phe
 1               5                    10                    15

Phe Arg Thr Xaa Trp Asn Pro Pro Gly Ala Phe Lys Glu Phe Gly Thr
             20                    25                    30

Ser Leu Leu Arg Arg Arg Arg Gly Ser Gly Ala Asn Met Pro Val Ala
         35                    40                    45

Arg Ser Trp Val Cys Arg Lys Thr Tyr Val Thr Pro Arg Arg Pro Phe
     50                    55                    60
```

```
Glu Lys Ser Arg Leu Asp Gln Glu Leu Lys Leu Ile Gly Glu Tyr Gly
65                  70                  75                  80

Leu Arg Asn Lys Arg Glu Val Trp Arg Val Lys Phe Thr Leu Ala Lys
                85                  90                  95

Ile Arg Lys Ala Ala Arg Glu Leu Leu Thr Leu Asp Glu Lys Asp Pro
            100                 105                 110

Arg Arg Leu Phe Glu Gly Asn Ala Leu Leu Arg Arg Leu Val Arg Ile
        115                 120                 125

Gly Val Leu Asp Glu Gly Lys Met Lys Leu Asp Tyr Ile Leu Gly Leu
    130                 135                 140

Lys Ile Glu Asp Phe Leu Glu Arg Arg Leu Gln Thr Gln Val Phe Lys
145                 150                 155                 160

Leu Gly Leu Ala Lys Ser Ile His His Ala Arg Val Leu Ile Arg Gln
            165                 170                 175

Arg His Ile Arg Val Arg Lys Gln Val Val Asn Ile Pro Ser Phe Ile
            180                 185                 190

Val Arg Leu Asp Ser Gln Lys His Ile Asp Phe Ser Leu Arg Ser Pro
        195                 200                 205

Tyr Gly Gly Gly Arg Pro Gly Arg Val Lys Arg Lys Asn Ala Lys Lys
    210                 215                 220

Gly Gln Gly Gly Ala Gly Ala Gly Asp Asp Glu Glu Glu Asp
225                 230                 235
```

<210> 877
<211> 79
<212> PRT
<213> Homo sapiens

<400> 877
```
Ala Gly Ile Arg His Glu Pro Ser Ala Ala Ala Met Ser Ser Gly Ala
1               5                   10                  15

Ser Ala Ser Ala Leu Gln Arg Leu Val Glu Gln Leu Lys Leu Glu Ala
            20                  25                  30

Gly Val Glu Arg Ile Lys Val Ser Gln Ala Ala Ala Glu Leu Gln Gln
        35                  40                  45

Tyr Cys Met Gln Asn Ala Cys Lys Asp Ala Leu Leu Val Gly Val Pro
```

```
            50                    55                    60

  Ala Gly Ser Asn Pro Phe Arg Glu Pro Arg Ser Cys Ala Leu Leu
   65                  70                  75
```

<210> 878
<211> 136
<212> PRT
<213> Homo sapiens

<400> 878
```
Ile Ala Ile Met Asn Asp Thr Val Thr Ile Arg Thr Arg Lys Phe Met
 1               5                  10                  15

Thr Asn Arg Leu Leu Gln Arg Lys Gln Met Val Ile Asp Val Leu His
              20                  25                  30

Pro Gly Lys Ala Thr Val Pro Lys Thr Glu Ile Arg Glu Lys Leu Ala
              35                  40                  45

Lys Met Tyr Lys Thr Thr Pro Asp Val Ile Phe Val Phe Gly Phe Arg
         50                  55                  60

Thr His Phe Gly Gly Gly Lys Thr Thr Gly Phe Gly Met Ile Tyr Asp
 65                  70                  75                  80

Ser Leu Asp Tyr Ala Lys Lys Asn Glu Pro Lys His Arg Leu Ala Arg
                 85                  90                  95

His Gly Leu Tyr Glu Lys Lys Lys Thr Ser Arg Lys Gln Arg Lys Glu
             100                 105                 110

Arg Lys Asn Arg Met Lys Lys Val Arg Gly Thr Ala Lys Ala Asn Val
             115                 120                 125

Gly Ala Gly Lys Lys Pro Lys Glu
    130                 135
```

<210> 879
<211> 141
<212> PRT
<213> Homo sapiens

<400> 879
```
Gly Cys Val Gly Val Arg Pro Ser Leu His Pro Ala Thr Ser Thr Ala
 1               5                  10                  15
```

```
Ser Gly Ser Ala Ser Pro Thr Leu Ala Arg Ala Met Ala Ser Val Ser
            20              25              30

Glu Leu Ala Cys Ile Tyr Ser Ala Leu Ile Leu His Asp Asp Glu Val
            35              40              45

Thr Val Thr Glu Asp Lys Ile Asn Ala Leu Ile Lys Ala Ala Gly Val
        50              55              60

Asn Val Glu Pro Phe Trp Pro Gly Leu Phe Ala Lys Ala Leu Ala Asn
65              70              75              80

Val Asn Ile Gly Ser Leu Ile Cys Asn Val Gly Ala Gly Gly Pro Ala
                85              90              95

Pro Ala Ala Gly Ala Ala Pro Ala Gly Gly Pro Ala Pro Ser Thr Ala
            100             105             110

Ala Ala Pro Ala Glu Glu Lys Lys Val Glu Ala Lys Lys Glu Glu Ser
        115             120             125

Glu Glu Ser Asp Asp Asp Met Gly Phe Gly Leu Phe Asp
    130             135             140
```

<210> 880
<211> 133
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (128)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

827

<220>
<221> SITE
<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 880
Ser Ala Gly Ala His Ala His Gly Ala Arg Glu Leu Ala Xaa Phe Leu
 1   5   10   15

Thr Pro Xaa Pro Gly Ala Glu Ala Lys Glu Val Glu Glu Thr Ile Glu
            20   25   30

Gly Met Leu Leu Arg Leu Glu Glu Phe Cys Ser Leu Ala Asp Leu Ile
        35   40   45

Arg Ser Asp Thr Ser Gln Ile Leu Glu Glu Asn Ile Pro Val Leu Lys
    50   55   60

Ala Lys Leu Thr Glu Met Arg Gly Ile Tyr Ala Lys Val Asp Arg Leu
 65   70   75   80

Glu Ala Phe Val Lys Met Val Gly His His Val Ala Phe Leu Glu Ala
                85   90   95

Asp Val Leu Gln Ala Glu Arg Asp His Gly Ala Phe Pro Gln Ala Leu
            100   105   110

Arg Arg Trp Leu Gly Ser Ala Gly Ser Pro Pro Ser Gly Thr Ser Xaa
        115   120   125

Leu Xaa Xaa Cys Pro
    130

<210> 881
<211> 260
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

828

<221> SITE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 881
Ile Glu Glu Pro Arg Asp Thr Arg Leu Gln Val Cys Ser Xaa Val His
1   5   10   15

Ile Trp Cys Leu Asp Lys Phe Lys Met Arg Lys His Arg His Leu Pro
            20   25   30

Leu Val Ala Val Phe Cys Leu Phe Leu Ser Gly Phe Pro Thr Thr His
            35   40   45

Ala Gln Gln Gln Gln Ala Val Ile Glu Val Asn Lys Arg Asp Ile Val
    50   55   60

Phe Leu Val Asp Gly Ser Ser Ala Leu Gly Leu Ala Asn Phe Asn Ala
65   70   75   80

Ile Arg Asp Phe Ile Ala Lys Val Ile Gln Arg Leu Glu Ile Gly Gln
                85   90   95

Asp Leu Ile Gln Val Ala Val Ala Gln Tyr Ala Asp Thr Val Arg Pro
            100   105   110

Glu Phe Tyr Phe Asn Thr His Pro Thr Lys Arg Xaa Val Ile Thr Ala
        115   120   125

Val Arg Lys Met Lys Pro Leu Xaa Gly Ser Ala Leu Tyr Thr Gly Ser
    130   135   140

Ala Leu Asp Phe Val Arg Asn Asn Leu Phe Thr Ser Ser Ala Gly Tyr
145   150   155   160

Arg Ala Ala Glu Gly Ile Pro Lys Leu Leu Xaa Leu Ile Thr Gly Gly
                165   170   175

Lys Ser Leu Asp Glu Ile Ser Gln Pro Ala Gln Glu Leu Lys Arg Ser
            180   185   190

Ser Ile Met Ala Phe Ala Ile Gly Asn Lys Gly Ala Asp Gln Ala Glu
        195   200   205

Leu Glu Glu Ile Ala Phe Asp Ser Ser Leu Val Phe Ile Pro Ala Glu
    210   215   220

```
Phe Arg Ala Ala Pro Leu Gln Gly Met Leu Pro Gly Leu Leu Ala Pro
225                 230             235             240

Leu Arg Thr Leu Ser Gly Thr Pro Glu Val His Ser Asn Lys Arg Asp
                245             250             255

Ile Ile Phe Leu
            260
```

<210> 882
<211> 149
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 882
Xaa Xaa Glu Ser Glu Xaa Ser Phe Xaa Cys Arg Lys Xaa Ile Ile Xaa
1   5   10   15

Phe Leu Xaa Tyr Lys Arg Val Val Phe Leu Lys Gln Leu Ala Ser Gly
            20   25   30

Leu Leu Leu Val Thr Gly Pro Leu Val Leu Asn Arg Val Pro Leu Arg
        35   40   45

Arg Thr His Gln Lys Phe Val Ile Ala Thr Ser Thr Lys Ile Asp Ile
    50   55   60

Ser Asn Val Lys Ile Pro Lys His Leu Thr Asp Ala Tyr Phe Lys Lys
65   70   75   80

Lys Lys Leu Arg Lys Pro Arg His Gln Glu Gly Glu Ile Phe Asp Thr
            85   90   95

Glu Lys Glu Lys Tyr Glu Ile Thr Glu Gln Arg Lys Ile Asp Gln Lys
            100   105   110

Ala Val Asp Ser Gln Ile Leu Pro Lys Ile Lys Ala Ile Pro Gln Leu
        115   120   125

Gln Gly Tyr Leu Arg Ser Val Phe Ala Leu Thr Asn Gly Ile Tyr Pro
    130   135   140

His Lys Leu Val Phe
145

<210> 883
<211> 256
<212> PRT
<213> Homo sapiens

<400> 883
Trp Lys Ser Val Val Val Leu Ala Val Ser Ala Gly Ala Gly Ser Ala
1   5   10   15

His Pro Arg Gln Asn Lys Tyr Ser Val Leu Leu Pro Thr Tyr Asn Glu
            20   25   30

Arg Glu Asn Leu Pro Leu Ile Val Trp Leu Leu Val Lys Ser Phe Ser
        35   40   45

Glu Ser Gly Ile Asn Tyr Glu Ile Ile Ile Ile Asp Asp Gly Ser Pro
    50   55   60

```
Asp Gly Thr Arg Asp Val Ala Glu Gln Leu Glu Lys Ile Tyr Gly Ser
65              70          75              80

Asp Arg Ile Leu Leu Arg Pro Arg Glu Lys Lys Leu Gly Leu Gly Thr
            85          90              95

Ala Tyr Ile His Gly Met Lys His Ala Thr Gly Asn Tyr Ile Ile Ile
        100         105             110

Met Asp Ala Asp Leu Ser His His Pro Lys Phe Ile Pro Glu Phe Ile
        115         120             125

Arg Lys Gln Lys Glu Gly Asn Phe Asp Ile Val Ser Gly Thr Arg Tyr
    130             135             140

Lys Gly Asn Gly Gly Val Tyr Gly Trp Asp Leu Lys Arg Lys Ile Ile
145             150             155             160

Ser Arg Gly Ala Asn Phe Leu Thr Gln Ile Leu Leu Arg Pro Gly Ala
            165             170             175

Ser Asp Leu Thr Gly Ser Phe Arg Leu Tyr Arg Lys Glu Val Leu Glu
        180             185             190

Lys Leu Ile Glu Lys Cys Val Ser Lys Gly Tyr Val Phe Gln Met Glu
        195             200             205

Met Ile Val Arg Ala Arg Gln Leu Asn Tyr Thr Ile Gly Glu Val Pro
    210             215             220

Ile Ser Phe Val Asp Arg Val Tyr Gly Glu Ser Lys Leu Gly Gly Asn
225             230             235             240

Glu Ile Val Ser Phe Leu Lys Gly Leu Leu Thr Leu Phe Ala Thr Thr
            245             250             255
```

```
<210> 884
<211> 449
<212> PRT
<213> Homo sapiens

<400> 884
Gly Gly Ser Trp Cys Arg Ser Ser Pro Gly Arg Asp Gly Ser Pro Gly
1           5           10              15
```

832

```
Ala Lys Gly Asp Arg Gly Glu Thr Gly Pro Ala Gly Pro Pro Gly Ala
            20                    25                  30

Pro Gly Ala Pro Gly Ala Pro Gly Pro Val Gly Pro Ala Gly Lys Ser
            35                    40                  45

Gly Asp Arg Gly Glu Thr Gly Pro Ala Gly Pro Ala Gly Pro Val Gly
        50                    55                  60

Pro Val Gly Ala Arg Gly Pro Ala Gly Pro Gln Gly Pro Arg Gly Asp
65                    70                    75                  80

Lys Gly Glu Thr Gly Glu Gln Gly Asp Arg Gly Ile Lys Gly His Arg
                85                    90                  95

Gly Phe Ser Gly Leu Gln Gly Pro Pro Gly Pro Pro Gly Ser Pro Gly
            100                   105                 110

Glu Gln Gly Pro Ser Gly Ala Ser Gly Pro Ala Gly Pro Arg Gly Pro
            115                   120                 125

Pro Gly Ser Ala Gly Ala Pro Gly Lys Asp Gly Leu Asn Gly Leu Pro
    130                   135                 140

Gly Pro Ile Gly Pro Pro Gly Pro Arg Gly Arg Thr Gly Asp Ala Gly
145                   150                   155                 160

Pro Val Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
            165                   170                 175

Pro Ser Ala Gly Phe Asp Phe Ser Phe Leu Pro Gln Pro Pro Gln Glu
            180                   185                 190

Lys Ala His Asp Gly Gly Arg Tyr Tyr Arg Ala Asp Asp Ala Asn Val
            195                   200                 205

Val Arg Asp Arg Asp Leu Glu Val Asp Thr Thr Leu Lys Ser Leu Ser
    210                   215                 220

Gln Gln Ile Glu Asn Ile Arg Ser Pro Glu Gly Ser Arg Lys Asn Pro
225                   230                   235                 240

Ala Arg Thr Cys Arg Asp Leu Lys Met Cys His Ser Asp Trp Lys Ser
            245                   250                 255

Gly Glu Tyr Trp Ile Asp Pro Asn Gln Gly Cys Asn Leu Asp Ala Ile
            260                   265                 270

Lys Val Phe Cys Asn Met Glu Thr Gly Glu Thr Cys Val Tyr Pro Thr
    275                   280                 285
```

```
Gln Pro Ser Val Ala Gln Lys Asn Trp Tyr Ile Ser Lys Asn Pro Lys
    290                 295             300

Asp Lys Arg His Val Trp Phe Gly Glu Ser Met Thr Asp Gly Phe Gln
305                 310             315                 320

Phe Glu Tyr Gly Gly Gln Gly Ser Asp Pro Ala Asp Val Ala Ile Gln
            325                 330                 335

Leu Thr Phe Leu Arg Leu Met Ser Thr Glu Ala Ser Gln Asn Ile Thr
            340                 345                 350

Tyr His Cys Lys Asn Ser Val Ala Tyr Met Asp Gln Gln Thr Gly Asn
            355                 360                 365

Leu Lys Lys Ala Leu Leu Leu Gln Gly Ser Asn Glu Ile Glu Ile Arg
    370                 375                 380

Ala Glu Gly Asn Ser Arg Phe Thr Tyr Ser Val Thr Val Asp Gly Cys
385                 390                 395                 400

Thr Ser His Thr Gly Ala Trp Gly Lys Thr Val Ile Glu Tyr Lys Thr
            405                 410                 415

Thr Lys Thr Ser Arg Leu Pro Ile Ile Asp Val Ala Pro Leu Asp Val
            420                 425                 430

Gly Ala Pro Asp Gln Glu Phe Gly Phe Asp Val Gly Pro Val Cys Phe
            435                 440                 445

Leu
```

```
<210> 885
<211> 64
<212> PRT
<213> Homo sapiens

<400> 885
Gly Lys Leu Val Thr Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp
    1               5               10                  15

Pro Arg Val Arg Trp Gly Phe Thr Lys Phe Asn Ala Asp Glu Phe Glu
            20                  25                  30

Asp Met Val Ala Glu Lys Arg Leu Ile Pro Asp Gly Cys Gly Val Lys
            35                  40                  45

Tyr Ile Pro Ser Arg Gly Pro Leu Asp Lys Trp Arg Ala Leu His Ser
```

834

50   55   60

<210> 886
<211> 132
<212> PRT
<213> Homo sapiens

<400> 886
Thr Thr Leu Arg Ala Leu Ala Leu Asn Leu Trp Pro Pro Lys Ser Arg
 1   5   10   15

Ser Leu Ile Ser Ser Trp Gln Ser Cys Gly Gln Glu Val Leu Lys Gly
            20   25   30

Lys Thr His Ser Asp Asn Cys Ser Pro Ile Tyr Gln Pro Ser Ala Gly
         35   40   45

Val Ser Asp Arg Gly Pro Leu Pro Pro Leu Glu Cys Ala Thr Tyr Glu
     50   55   60

Glu Cys Pro Met Gly Lys Arg Arg Leu Ser Cys Pro Leu Ala Ala Cys
 65   70   75   80

Ala Ser Ile Pro Gly Gln Lys Phe Pro Gln Glu Pro Leu Ala Leu Ala
                 85   90   95

Gln Ser His Cys Glu Arg Arg Trp Glu Pro Thr Pro Leu Gly Glu Gly
             100   105   110

Ala Val Leu Leu Gly Thr Ser Gln His Gln Val Arg Ser Leu Lys Leu
             115   120   125

Lys Asn Val Asn
         130

<210> 887
<211> 70
<212> PRT
<213> Homo sapiens

<400> 887
Gly Leu Ser Ser Glu Ala Arg Glu Lys Ser Ser Glu Pro Gln Glu Arg
 1   5   10   15

Ser Ser Glu Pro Trp Glu Arg Ser Ser Glu Pro Trp Glu Gly Leu Val
            20   25   30

Thr Phe Glu Asp Val Ala Val Glu Phe Thr Gln Glu Glu Trp Ala Leu
            35   40   45

Leu Asp Pro Ala Gln Arg Thr Leu Tyr Arg Asp Val Met Leu Glu Asn
        50   55   60

Cys Arg Thr Trp Pro His
65   70

<210> 888
<211> 373
<212> PRT
<213> Homo sapiens

<400> 888
Val Asp Pro Arg Val Arg Phe Arg Glu Glu Phe Leu Phe Ser Ser Leu
    1   5   10   15

Gln Glu Gly Arg Asp Lys Asp Thr Phe Ser Lys Met Ala Met Val Ser
            20   25   30

Glu Phe Leu Lys Gln Ala Trp Phe Ile Glu Asn Glu Glu Gln Glu Tyr
            35   40   45

Val Gln Thr Val Lys Ser Ser Lys Gly Gly Pro Gly Ser Ala Val Ser
        50   55   60

Pro Tyr Pro Thr Phe Asn Pro Ser Ser Asp Val Ala Ala Leu His Lys
65   70   75   80

Ala Ile Met Val Lys Gly Val Asp Glu Ala Thr Ile Ile Asp Ile Leu
                85   90   95

Thr Lys Arg Asn Asn Ala Gln Arg Gln Gln Ile Lys Ala Ala Tyr Leu
            100   105   110

Gln Glu Thr Gly Lys Pro Leu Asp Glu Thr Leu Lys Lys Ala Leu Thr
            115   120   125

Gly His Leu Glu Glu Val Val Leu Ala Leu Leu Lys Thr Pro Ala Gln
        130   135   140

Phe Asp Ala Asp Glu Leu Arg Ala Ala Met Lys Gly Leu Gly Thr Asp
145   150   155   160

Glu Asp Thr Leu Ile Glu Ile Leu Ala Ser Arg Thr Asn Lys Glu Ile

```
                        165                    170                    175

     Arg Asp Ile Asn Arg Val Tyr Arg Glu Glu Leu Lys Arg Asp Leu Ala
             180                    185                    190

     Lys Asp Ile Thr Ser Asp Thr Ser Gly Asp Phe Arg Asn Ala Leu Leu
             195                    200                    205

     Ser Leu Ala Lys Gly Asp Arg Ser Glu Asp Phe Gly Val Asn Glu Asp
         210                    215                    220

     Leu Ala Asp Ser Asp Ala Arg Ala Leu Tyr Glu Ala Gly Glu Arg Arg
     225                    230                    235                    240

     Lys Gly Thr Asp Val Asn Val Phe Asn Thr Ile Leu Thr Thr Arg Ser
                 245                    250                    255

     Tyr Pro Gln Leu Arg Arg Val Phe Gln Lys Tyr Thr Lys Tyr Ser Lys
             260                    265                    270

     His Asp Met Asn Lys Val Leu Asp Leu Glu Leu Lys Gly Asp Ile Glu
             275                    280                    285

     Lys Cys Leu Thr Ala Ile Val Lys Cys Ala Thr Ser Lys Pro Ala Phe
         290                    295                    300

     Phe Ala Glu Lys Leu His Gln Ala Met Lys Gly Val Gly Thr Arg His
     305                    310                    315                    320

     Lys Ala Leu Ile Arg Ile Met Val Ser Arg Ser Glu Ile Asp Met Asn
                     325                    330                    335

     Asp Ile Lys Ala Phe Tyr Gln Lys Met Tyr Gly Ile Ser Leu Cys Gln
             340                    345                    350

     Ala Ile Leu Asp Glu Thr Lys Gly Asp Tyr Glu Lys Ile Leu Val Ala
             355                    360                    365

     Leu Cys Gly Gly Asn
         370
```

<210> 889
<211> 336
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)

```
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (183)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 889
Gly Arg Lys Lys His Leu Xaa Ala Arg Leu Val Thr Glu Met Asp Ser
 1           5               10               15

Lys Tyr Gln Cys Val Lys Leu Asn Asp Gly His Phe Met Pro Val Leu
             20               25               30

Gly Phe Gly Thr Tyr Ala Pro Ala Glu Val Pro Lys Ser Lys Ala Leu
         35               40               45

Glu Ala Xaa Lys Leu Ala Ile Glu Ala Gly Phe Xaa His Ile Asp Ser
     50               55               60

Ala His Xaa Tyr Asn Asn Glu Glu Gln Val Gly Leu Ala Ile Arg Ser
 65               70               75               80

Lys Ile Ala Asp Gly Ser Val Lys Arg Glu Asp Ile Phe Tyr Thr Ser
                 85               90               95

Lys Leu Trp Xaa Asn Ser His Arg Pro Glu Leu Val Arg Pro Ala Leu
             100              105              110

Glu Arg Ser Leu Lys Asn Leu Gln Leu Asp Tyr Val Asp Leu Tyr Leu
             115              120              125
```

```
Ile His Phe Pro Val Ser Val Lys Pro Gly Glu Glu Val Ile Pro Lys
    130             135             140
```

```
Asp Glu Asn Gly Lys Ile Leu Phe Asp Thr Val Asp Leu Cys Ala Thr
145             150             155             160
```

```
Trp Glu Ala Val Glu Lys Cys Lys Asp Ala Gly Leu Ala Lys Ser Ile
            165             170             175
```

```
Gly Val Ser Asn Phe Asn Xaa Arg Gln Leu Glu Met Ile Leu Asn Lys
        180             185             190
```

```
Pro Gly Leu Lys Tyr Lys Pro Val Cys Asn Gln Val Glu Cys His Pro
        195             200             205
```

```
Tyr Phe Asn Gln Arg Lys Leu Leu Asp Phe Cys Lys Ser Lys Asp Ile
    210             215             220
```

```
Val Leu Val Ala Tyr Ser Ala Leu Gly Ser His Arg Glu Glu Pro Trp
225             230             235             240
```

```
Val Asp Pro Asn Ser Pro Val Leu Leu Glu Asp Pro Val Leu Cys Ala
            245             250             255
```

```
Leu Ala Lys Lys His Lys Arg Thr Pro Ala Leu Ile Ala Leu Arg Tyr
        260             265             270
```

```
Gln Leu Gln Arg Gly Val Val Val Leu Ala Lys Ser Tyr Asn Glu Gln
        275             280             285
```

```
Arg Ile Arg Gln Asn Val Gln Val Phe Glu Phe Gln Leu Thr Ser Glu
    290             295             300
```

```
Glu Met Lys Ala Ile Asp Gly Leu Asn Arg Asn Val Arg Tyr Leu Thr
305             310             315             320
```

```
Leu Asp Ile Phe Ala Gly Pro Pro Asn Tyr Pro Phe Ser Asp Glu Tyr
            325             330             335
```

<210> 890
<211> 195
<212> PRT
<213> Homo sapiens

<400> 890

```
Arg Ser Ser Glu Val Tyr Ala Gln Leu Cys Asn Val Ala Arg Ile Glu
 1           5               10                  15

Ala Glu Arg Glu Ala Gly Val His Phe Arg Pro Gly Tyr Glu Tyr Gly
            20               25                  30

Pro Gly Pro Asp Asp Leu His Tyr Ser Ile Tyr Gly Pro Asp Gly Ala
            35               40                  45

Pro Phe Tyr Asn Tyr Leu Gly Pro Glu Asp Thr Val Pro Glu Pro Ala
     50               55                  60

Phe Pro Asn Thr Ala Gly His Ser Ala Asp Arg Thr Pro Ile Leu Glu
 65               70                  75                  80

Ser Pro Leu Gln Pro Ser Glu Leu Gln Pro His Tyr Val Ala Ser His
               85                  90                  95

Pro Glu Pro Pro Ala Gly Phe Glu Gly Leu Gln Ala Glu Glu Cys Gly
            100               105                 110

Ile Leu Asn Gly Cys Glu Asn Gly Arg Cys Val Arg Val Arg Glu Gly
          115               120                 125

Tyr Thr Cys Asp Cys Phe Glu Gly Phe Gln Leu Asp Ala Ala His Met
     130               135                 140

Ala Cys Val Asp Val Asn Glu Cys Asp Asp Leu Asn Gly Pro Ala Val
145               150               155                 160

Leu Cys Val His Gly Tyr Cys Glu Asn Thr Glu Gly Ser Tyr Arg Cys
               165               170                 175

His Cys Ser Pro Gly Tyr Val Ala Glu Ala Gly Pro Pro His Cys Thr
            180               185                 190

Ala Lys Glu
            195
```

```
<210> 891
<211> 198
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<220>
<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 891
Ser Ala Gly Leu Thr Gly Arg Ile Ala Phe Ala Ala Ala Arg Pro Gln
1   5   10   15

Thr Phe Val Pro Gly Pro Ser Ser Pro Pro Pro Pro Pro Pro Pro Arg
            20   25   30

Pro Ala Glu Leu Ala Pro Ser Pro Pro Ala Asp Met Ser Glu Ser Lys
        35   40   45

Ser Gly Pro Glu Tyr Ala Ser Phe Phe Ala Val Met Gly Ala Ser Ala
    50   55   60

Ala Met Val Phe Ser Ala Leu Gly Ala Ala Tyr Gly Thr Ala Lys Ser
65   70   75   80

Gly Thr Gly Ile Ala Ala Met Ser Val Met Arg Pro Glu Gln Ile Met
                85   90   95

Lys Ser Ile Ile Pro Val Val Met Ala Gly Ile Xaa Xaa Ile Tyr Gly
            100   105   110

Leu Val Val Ala Val Leu Ile Ala Asn Ser Leu Asn Asp Asp Ile Ser
            115   120   125

Leu Tyr Lys Ser Phe Leu Gln Leu Gly Ala Gly Leu Ser Val Gly Leu
    130   135   140

Ser Gly Leu Ala Ala Gly Phe Ala Ile Gly Ile Val Gly Asp Ala Gly
145   150   155   160

Val Arg Gly Asn Ala Gln Gln Pro Arg Leu Phe Val Gly Met Ile Leu
                165   170   175

Ile Leu Ile Phe Ala Glu Val Leu Gly Leu Tyr Gly Leu Ile Val Ala
            180   185   190

Leu Ile Leu Ser Thr Lys
        195

<210> 892
<211> 95
<212> PRT
<213> Homo sapiens

```
<400> 892
Asp Ala Trp Ala Pro Ser Glu Ser Arg Glu Ala Leu Leu Thr Pro Pro
 1               5                  10                  15

Pro His Arg Arg His Thr Ala Ala Ala Ser Val Met Pro Lys His Glu
                20                  25                  30

Phe Ser Val Asp Met Thr Cys Gly Gly Cys Ala Glu Ala Val Ser Arg
         35                  40                  45

Val Leu Asn Lys Leu Gly Gly Val Lys Tyr Asp Ile Asp Leu Pro Asn
     50                  55                  60

Lys Lys Val Cys Ile Glu Ser Glu His Ser Met Asp Thr Leu Leu Ala
 65                  70                  75                  80

Thr Leu Lys Lys Thr Gly Lys Thr Val Ser Tyr Leu Gly Leu Glu
                85                  90                  95
```

```
<210> 893
<211> 123
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 893
Gly Glu His Pro Arg Gln Pro Ala Gly Asn Asn Ile Leu Ala Val Leu
 1               5                  10                  15

Thr Cys Cys Gln Gln Ile His Arg Thr Trp Met Lys Phe Pro Phe Pro
                20                  25                  30

Leu Val Ser Ser Cys Ser Thr Pro Leu Leu Asp Pro Lys Ser Leu Thr
         35                  40                  45

Lys Ala Leu Asn Thr Val Lys Met Phe Tyr Ile Pro Phe His Leu Cys
     50                  55                  60

Cys Phe Phe Asn Cys Ile Leu Pro Asp Val Leu Met Leu Ser Leu Met
```

842

```
          65                    70                    75                    80
     Leu Ile Val Ile Pro Val Arg Val His Phe Ile Phe Met Leu Phe Gln
                     85                    90                    95

     Pro Cys Ile Asn Ile His Leu Thr Lys Ile Thr Gln Leu Ile Xaa Lys
                 100                   105                   110

     Lys Lys Lys Asn Xaa Gly Gly Gly Pro Gly Thr
             115                   120
```

<210> 894
<211> 172
<212> PRT
<213> Homo sapiens

<400> 894

```
     Gln Phe Val Tyr Cys Gly Lys Lys Ala Gln Leu Asn Ile Gly Asn Val
      1               5                    10                    15

     Leu Pro Val Gly Thr Met Pro Glu Gly Thr Ile Val Cys Cys Leu Glu
                     20                    25                    30

     Glu Lys Pro Gly Asp Arg Gly Lys Leu Ala Arg Ala Ser Gly Asn Tyr
                 35                    40                    45

     Ala Thr Val Ile Ser His Asn Pro Glu Thr Lys Lys Thr Arg Val Lys
          50                    55                    60

     Leu Pro Ser Gly Ser Lys Lys Val Ile Ser Ser Ala Asn Arg Ala Val
      65                    70                    75                    80

     Val Gly Val Val Ala Gly Gly Gly Arg Ile Asp Lys Pro Ile Leu Lys
                     85                    90                    95

     Ala Gly Arg Ala Tyr His Lys Tyr Lys Ala Lys Arg Asn Cys Trp Pro
                 100                   105                   110

     Arg Val Arg Gly Val Ala Met Asn Pro Val Glu His Pro Phe Gly Gly
                 115                   120                   125

     Gly Asn His Gln His Ile Gly Lys Pro Ser Thr Ile Arg Arg Asp Ala
             130                   135                   140

     Pro Ala Gly Arg Lys Val Gly Leu Ile Ala Ala Arg Arg Thr Gly Arg
     145                   150                   155                   160

     Leu Arg Gly Thr Lys Thr Val Gln Glu Lys Glu Asn
                     165                   170
```

<210> 895
<211> 171
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 895
Asn Arg Glu Gly Ser Lys Gly Val Glu Thr Arg Arg Val Leu Val Gly
 1   5   10   15

Glu Gln Gln Gln Cys Xaa Asp Ala Lys Ser Gln Gln Lys Glu Gln Met
                20   25   30

Leu Leu Leu Glu Xaa Lys Ser Ala Ala Tyr Ser Gln Val Leu Leu Arg
            35   40   45

Cys Leu Thr Leu Leu Gln Arg Leu Leu Gln Glu His Arg Leu Lys Thr
        50   55   60

Gln Ser Glu Leu Asp Arg Ile Asn Ala Gln Tyr Leu Glu Val Lys Cys
 65   70   75   80

Gly Ala Met Ile Leu Lys Leu Arg Met Glu Glu Leu Lys Ile Leu Ser
                85   90   95

Asp Thr Tyr Thr Val Glu Lys Val Glu Val His Arg Leu Ile Arg Asp
                100   105   110

Arg Leu Glu Gly Ala Ile His Leu Gln Glu Gln Asp Met Glu Asn Ser
            115   120   125

Arg Gln Val Leu Asn Ser Tyr Glu Val Leu Gly Glu Glu Phe Asp Arg
        130   135   140

Leu Val Lys Glu Tyr Thr Val Leu Lys Gln Ala Thr Glu Asn Lys Arg
145   150   155   160

Trp Ala Leu Gln Glu Ph Ser Lys Val Tyr Arg
                165   170

844

<210> 896
<211> 99
<212> PRT
<213> Homo sapiens

<400> 896
Arg Glu Val Met Lys Leu Tyr Leu Phe Gln Trp Ala Leu Phe His Phe
1   5   10   15

Thr Thr Val Pro Leu Phe Gly Ser Trp Ser Tyr Thr Leu Ile Phe Ser
                20   25   30

Ile Leu Leu Leu Asn Tyr Gln His Lys Ala Ile Tyr Leu Lys Asp Ser
        35   40   45

Val Tyr Pro Ala Ile Ala Leu Lys Ser Ser Arg Lys Arg Asn Pro Leu
    50   55   60

Thr Cys Ile Ser Phe Cys Arg Ala Ser Leu Phe Ser Phe Val Leu Cys
65   70   75   80

Phe Leu Pro Phe Glu Ser Asp Ser Val Leu Val Arg Lys Thr Ser Trp
                85   90   95

Asp His Ser

<210> 897
<211> 289
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (255)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 897
Ala Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Pro Thr Arg Arg Pro
1   5   10   15

Arg Val Arg Gly Arg Ser Gln Leu Ser Ala His Gly Pro Ala.Ser Phe
                20   25   30

Lys Met Ser Thr Val His Glu Ile Leu Cys Lys Leu Ser Leu Glu Gly
            35   40   45

845

Asp His Ser Thr Pro Pro Ser Ala Tyr Gly Ser Val Lys Ala Tyr Thr
    50   55   60

Asn Phe Asp Ala Glu Arg Asp Ala Leu Asn Ile Glu Thr Ala Ile Lys
65   70   75   80

Thr Lys Gly Val Asp Glu Val Thr Ile Val Asn Ile Leu Thr Asn Arg
                85   90   95

Ser Asn Ala Gln Arg Gln Asp Ile Ala Phe Ala Tyr Gln Arg Arg Thr
                100   105   110

Lys Lys Glu Leu Ala Ser Ala Leu Lys Ser Ala Leu Ser Gly His Leu
        115   120   125

Glu Thr Val Ile Leu Gly Leu Leu Lys Thr Pro Ala Gln Tyr Asp Ala
    130   135   140

Ser Glu Leu Lys Ala Ser Met Lys Gly Leu Gly Thr Asp Glu Asp Ser
145   150   155   160

Leu Ile Glu Ile Ile Cys Ser Arg Thr Asn Gln Glu Leu Gln Glu Ile
                165   170   175

Asn Arg Val Tyr Lys Glu Met Tyr Lys Thr Asp Leu Glu Lys Asp Ile
            180   185   190

Ile Ser Asp Thr Ser Gly Asp Phe Arg Lys Leu Met Val Ala Leu Ala
        195   200   205

Lys Gly Arg Arg Ala Glu Asp Gly Ser Val Ile Asp Tyr Glu Leu Ile
    210   215   220

Asp Gln Asp Ala Arg Asp Leu Tyr Asp Ala Gly Val Lys Arg Lys Gly
225   230   235   240

Thr Asp Val Pro Lys Trp Ile Ser Ile Met Thr Glu Arg Ser Xaa Pro
                245   250   255

Thr Ser Arg Lys Tyr Leu Ile Gly Thr Arg Val Thr Ala Leu Met Thr
            260   265   270

Cys Trp Lys Ala Ser Gly Lys Arg Leu Lys Glu Thr Trp Lys Met Leu
            275   280   285

Ser

```
<210> 898
<211> 232
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (205)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 898
Asn Pro Arg Gly Lys Val Ala Gly Phe Asp Leu Asp Gly Thr Leu Ile
 1               5                   10                  15


Thr Thr Arg Ser Gly Lys Val Phe Pro Thr Gly Pro Ser Asp Trp Arg
                20                  25                  30


Ile Leu Tyr Pro Glu Ile Pro Arg Lys Leu Arg Glu Leu Glu Ala Glu
            35                  40                  45


Gly Tyr Lys Leu Val Ile Phe Thr Asn Gln Met Ser Ile Gly Arg Gly
    50                  55                  60


Lys Leu Pro Ala Glu Glu Phe Lys Ala Lys Val Glu Ala Val Val Glu
65                  70                  75                  80


Lys Leu Gly Val Pro Phe Gln Val Leu Val Ala Thr His Ala Gly Leu
                85                  90                  95


Tyr Arg Lys Pro Val Thr Gly Met Trp Asp His Leu Gln Glu Gln Ala
            100                 105                 110


Asn Asp Gly Thr Pro Ile Ser Ile Gly Asp Ser Ile Phe Val Gly Asp
            115                 120                 125


Ala Ala Gly Arg Pro Ala Asn Trp Ala Pro Gly Arg Lys Lys Lys Asp
    130                 135                 140


Phe Ser Cys Ala Asp Arg Leu Phe Ala Leu Asn Leu Gly Leu Pro Phe
145                 150                 155                 160


Ala Thr Pro Glu Glu Phe Phe Leu Lys Trp Pro Ala Ala Gly Phe Glu
                165                 170                 175


Leu Pro Ala Phe Asp Pro Arg Thr Val Ser Arg Ser Gly Pro Leu Cys
            180                 185                 190


Leu Pro Glu Ser Arg Ala Leu Leu Ser Ala Thr Arg Xaa Trp Leu Ser
            195                 200                 205


Gln Trp Asp Ser Leu Gly Pro Gly Ser Pro Pro Phe Ser Arg Ser Thr
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847

                210   215   220

Ser Cys Arg Pro Asp Met Ser Thr
225   230

<210> 899
<211> 218
<212> PRT
<213> Homo sapiens

<400> 899
Leu Arg Val Ala Arg Pro Asp Ala Ala Arg Ala Ala Pro Leu Ala Pro
  1   5   10   15

Ala Ala Ala Met Lys Ala Val Val Gln Arg Val Thr Arg Ala Ser Val
                20   25   30

Thr Val Gly Gly Glu Gln Ile Ser Ala Ile Gly Arg Gly Ile Cys Val
        35   40   45

Leu Leu Gly Ile Ser Leu Glu Asp Thr Gln Lys Glu Leu Glu His Met
    50   55   60

Val Arg Lys Ile Leu Asn Leu Arg Val Phe Glu Asp Glu Ser Gly Lys
 65   70   75   80

His Trp Ser Lys Ser Val Met Asp Lys Gln Tyr Glu Ile Leu Cys Val
                85   90   95

Ser Gln Phe Thr Leu Gln Cys Val Leu Lys Gly Asn Lys Pro Asp Phe
                100   105   110

His Leu Ala Met Pro Thr Glu Gln Ala Glu Gly Phe Tyr Asn Ser Phe
        115   120   125

Leu Glu Gln Leu Arg Lys Thr Tyr Arg Pro Glu Leu Ile Lys Asp Gly
    130   135   140

Lys Phe Gly Ala Tyr Met Gln Val His Ile Gln Asn Asp Gly Pro Val
145   150   155   160

Thr Ile Glu Leu Glu Ser Pro Ala Pro Gly Thr Ala Thr Ser Asp Pro
                165   170   175

Lys Gln Leu Ser Lys Leu Glu Lys Gln Gln Gln Arg Lys Glu Lys Thr
                180   185   190

Arg Ala Lys Gly Pro Ser Glu Phe Lys Gln Gly Lys Lys His Ser Pro
        195   200   205

848

Lys Arg Arg Pro Gln Cys Gln Gln Arg Gly
    210   215

<210> 900
<211> 152
<212> PRT
<213> Homo sapiens

<400> 900
Ser Lys Arg Gly His Val Pro Trp Gly Leu Glu Glu Ile Leu Asp Val
    1   5   10   15

Ile Glu Pro Ser Gln Phe Val Lys Ile Gln Glu Pro Leu Phe Lys Gln
            20   25   30

Ile Ala Lys Cys Val Ser Ser Pro His Phe Gln Val Ala Glu Arg Ala
            35   40   45

Leu Tyr Tyr Trp Asn Asn Glu Tyr Ile Met Ser Leu Ile Glu Glu Asn
    50   55   60

Ser Asn Val Ile Leu Pro Ile Met Phe Ser Ser Leu Tyr Arg Ile Ser
65   70   75   80

Lys Glu His Trp Asn Pro Ala Ile Val Ala Leu Val Tyr Asn Val Leu
                85   90   95

Lys Ala Phe Met Glu Met Asn Ser Thr Met Phe Asp Glu Leu Thr Ala
            100   105   110

Thr Tyr Lys Ser Asp Arg Gln Arg Glu Lys Lys Lys Glu Lys Glu Arg
            115   120   125

Glu Glu Leu Trp Lys Lys Leu Glu Asp Leu Glu Leu Lys Arg Gly Leu
    130   135   140

Arg Arg Asp Gly Ile Ile Pro Thr
145   150

<210> 901
<211> 261
<212> PRT
<213> Homo sapiens

<400> 901
Gly Leu Arg Glu Ile Ser Gly Arg Leu Ala Glu Met Pro Ala Asp Ser

849

```
   1                 5                      10                        15

Gly Tyr Pro Ala Tyr Leu Gly Ala Arg Leu Ala Ser Phe Tyr Glu Arg
            20              25              30

Ala Gly Arg Val Lys Cys Leu Gly Asn Pro Glu Arg Glu Gly Ser Val
            35              40              45

Ser Ile Val Gly Ala Val Ser Pro Pro Gly Gly Asp Phe Ser Asp Pro
    50              55              60

Val Thr Ser Ala Thr Leu Gly Ile Val Gln Val Phe Trp Gly Leu Asp
65              70              75              80

Lys Lys Leu Ala Gln Arg Lys His Phe Pro Ser Val Asn Trp Leu Ile
            85              90                      95

Ser Tyr Ser Lys Tyr Met Arg Ala Leu Asp Glu Tyr Tyr Asp Lys His
            100             105             110

Phe Thr Glu Phe Val Pro Leu Arg Thr Lys Ala Lys Glu Ile Leu Gln
            115             120             125

Glu Glu Glu Asp Leu Ala Glu Ile Val Gln Leu Val Gly Lys Ala Ser
    130             135             140

Leu Ala Glu Thr Asp Lys Ile Thr Leu Glu Val Ala Lys Leu Ile Lys
145             150             155             160

Asp Asp Phe Leu Gln Gln Asn Gly Tyr Thr Pro Tyr Asp Arg Phe Cys
            165             170                 175

Pro Phe Tyr Lys Thr Val Gly Met Leu Ser Asn Met Ile Ala Phe Tyr
            180             185             190

Asp Met Ala Arg Arg Val Phe Glu Thr Thr Ala Gln Ser Asp Asn Lys
            195             200             205

Ile Thr Trp Ser Ile Ile Arg Glu His Met Gly Asp Ile Leu Tyr Lys
    210             215             220

Leu Ser Ser Met Lys Phe Lys Asp Pro Leu Lys Asp Gly Glu Ala Lys
225             230             235             240

Ile Lys Ser Asp Tyr Ala Gln Leu Leu Glu Asp Met Gln Asn Ala Phe
            245             250             255

Arg Ser Leu Glu Asp
            260
```

850

```
<210> 902
<211> 169
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 902
Phe Pro Gly Arg Pro Thr Arg Pro Arg Gly Ile Ser Val Ser Gly Gly
 1               5                  10                  15

Glu Ala Val Cys Pro Val Gln Trp Arg Leu Arg Lys Leu Ala Ala Ala
                20                  25                  30

Xaa Gly Lys Gly Gln Glu Val Glu Thr Ser Val Thr Tyr Tyr Arg Leu
            35                  40                  45

Glu Glu Val Ala Lys Arg Asn Ser Leu Lys Glu Leu Trp Leu Val Ile
    50                  55                  60

His Gly Arg Val Tyr Asp Val Thr Arg Phe Leu Asn Glu His Pro Gly
65                  70                  75                  80

Gly Glu Glu Val Leu Leu Glu Gln Ala Gly Val Asp Ala Ser Glu Ser
                85                  90                  95

Phe Glu Asp Val Gly His Ser Ser Asp Ala Arg Glu Met Leu Lys Gln
            100                 105                 110

Tyr Tyr Ile Gly Asp Ile His Pro Ser Asp Leu Lys Pro Glu Ser Gly
            115                 120                 125

Ser Lys Asp Pro Ser Lys Asn Asp Thr Cys Lys Ser Cys Trp Ala Tyr
    130                 135                 140

Trp Ile Leu Pro Ile Ile Gly Ala Val Leu Leu Gly Phe Leu Tyr Arg
145                 150                 155                 160

Tyr Tyr Thr Ser Glu Ser Lys Ser Ser
                165


<210> 903
<211> 53
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 903
Pro Leu Cys Leu Ala Lys Asn Lys Asn Phe Leu Ile Leu Arg Xaa Asn
  1               5                  10                  15

Ile Gln Xaa Ile His Ile Lys Ser Leu Glu Asn Ile Ile Pro Phe Asp
              20                  25                  30

Ser Leu Ile Thr Leu Leu Glu Tyr Lys Glu Met Ile Leu Asn Ile Tyr
          35                  40                  45

Val Val Leu Trp Ser
      50


<210> 904
<211> 329
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 904
Arg Arg Xaa Ala Xaa Pro Arg Val Arg Trp Lys Ile Cys Gly Leu Ser
  1               5                  10                  15

Pro Thr Thr Thr Leu Ala Ile Tyr Phe Glu Val Val Asn Gln His Asn
```

852

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                    20                    25                    30

Ala Pro Ile Xaa Gln Gly Gly Arg Gly Ala Ile Gln Phe Val Thr Gln
            35              40              45

Tyr Gln His Ser Ser Gly Gln Arg Arg Ile Arg Val Thr Thr Ile Ala
        50              55              60

Arg Asn Trp Ala Asp Ala Gln Thr Gln Ile Gln Asn Ile Ala Ala Ser
65              70              75              80

Phe Asp Gln Glu Ala Ala Ala Ile Leu Met Ala Arg Leu Ala Ile Tyr
                85              90              95

Arg Ala Glu Thr Glu Glu Gly Pro Asp Val Leu Arg Trp Leu Asp Arg
            100             105             110

Gln Leu Ile Arg Leu Cys Gln Lys Phe Gly Glu Tyr His Lys Asp Asp
        115             120             125

Pro Ser Ser Phe Arg Phe Ser Glu Thr Phe Ser Leu Tyr Pro Gln Phe
        130             135             140

Met Phe His Leu Arg Arg Ser Ser Phe Leu Gln Val Phe Asn Asn Ser
145             150             155             160

Pro Asp Glu Ser Ser Tyr Tyr Arg His His Phe Met Arg Gln Asp Leu
            165             170             175

Thr Gln Ser Leu Ile Met Ile Gln Pro Ile Leu Tyr Ala Tyr Ser Phe
            180             185             190

Ser Gly Pro Pro Glu Pro Val Leu Leu Asp Ser Ser Ser Ile Leu Ala
        195             200             205

Asp Arg Ile Leu Leu Met Asp Thr Phe Phe Gln Ile Leu Ile Tyr His
        210             215             220

Gly Glu Thr Ile Ala Gln Trp Arg Lys Ser Gly Tyr Gln Asp Met Pro
225             230             235             240

Glu Tyr Glu Asn Phe Arg His Leu Leu Gln Ala Pro Val Asp Asp Ala
            245             250             255

Gln Glu Ile Leu His Ser Arg Phe Pro Met Pro Arg Tyr Ile Asp Thr
            260             265             270

Glu His Gly Gly Ser Gln Ala Arg Phe Leu Leu Ser Lys Val Asn Pro
        275             280             285

Ser Gln Thr His Asn Asn Met Tyr Ala Trp Gly Gln Glu Ser Gly Ala
```

```
              290                 295                 300
     Pro Ile Leu Thr Asp Asp Val Ser Leu Gln Val Phe Met Asp His Leu
     305                 310                 315                 320

     Lys Lys Leu Ala Val Ser Ser Ala Ala
                         325
```

```
<210> 905
<211> 264
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 905
     Phe Leu Leu Pro Thr Leu Trp Phe Cys Ser Pro Ser Ala Lys Tyr Phe
       1               5                  10                  15

     Phe Lys Met Ala Phe Tyr Asn Gly Trp Ile Leu Phe Leu Ala Val Leu
                     20                  25                  30

     Ala Ile Pro Val Cys Ala Val Arg Gly Arg Asn Val Glu Asn Met Xaa
                 35                  40                  45

     Ile Leu Arg Leu Met Leu Leu His Ile Lys Tyr Leu Tyr Gly Ile Arg
         50                  55                  60

     Val Glu Val Arg Gly Ala His His Phe Pro Pro Ser Gln Pro Tyr Val
     65                  70                  75                  80

     Val Val Ser Asn His Gln Ser Ser Leu Asp Leu Leu Gly Met Met Glu
                     85                  90                  95

     Val Leu Pro Gly Arg Cys Val Pro Ile Ala Lys Arg Glu Leu Leu Trp
                     100                 105                 110

     Ala Gly Ser Ala Gly Leu Ala Cys Trp Leu Ala Gly Val Ile Phe Ile
                 115                 120                 125

     Asp Arg Lys Arg Thr Gly Asp Ala Ile Ser Val Met Ser Glu Val Ala
         130                 135                 140

     Gln Thr Leu Leu Thr Gln Asp Val Arg Val Trp Val Phe Pro Glu Gly
     145                 150                 155                 160
```

854

Thr Arg Asn His Asn Gly Ser Met Leu Pro Phe Lys Arg Gly Ala Phe
            165   170   ·   175

His Leu Ala Val Gln Ala Gln Val Pro Ile Val Pro Ile Val Met Ser
            180   185   190

Ser Tyr Gln Asp Phe Tyr Cys Lys Lys Glu Arg Arg Phe Thr Ser Gly
        195   200   205

Gln Cys Gln Val Arg Val Leu Pro Pro Val Pro Thr Glu Gly Leu Thr
    210   215   220

Pro Asp Asp Val Pro Ala Leu Ala Asp Arg Val Arg His Ser Met Leu
225   230   235   240

Thr Val Phe Arg Glu Ile Ser Thr Asp Gly Arg Gly Gly Gly Asp Tyr
            245   250   255

Leu Lys Lys Pro Gly Gly Gly Gly
            260

<210> 906
<211> 189
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 906
Xaa Xaa Pro Xaa Pro Glu Phe Pro Gly Arg Thr His Ala Ser Gly Leu
  1   5   10   15

Leu Arg Ser Arg Leu Ala Leu Arg Trp Leu Ser His Val Arg Arg Pro
        20   25   30

Ser Arg Arg Val Pro Arg Met Pro Arg Gly Ser Arg Ser Arg Thr Ser

```
                    35                  40                  45

     Arg Met Ala Pro Pro Ala Ser Arg Ala Pro Gln Met Arg Ala Ala Pro
         50                  55                  60

     Arg Pro Ala Pro Val Ala Gln Pro Pro Ala Ala Ala Pro Pro Ser Ala
     65                  70                  75                  80

     Val Gly Ser Ser Ala Ala Ala Pro Arg Gln Pro Gly Leu Met Ala Gln
                     85                  90                  95

     Met Ala Thr Thr Ala Ala Gly Val Ala Val Gly Ser Ala Val Gly His
                     100                 105                 110

     Thr Leu Gly His Ala Ile Thr Gly Gly Phe Ser Gly Gly Ser Asn Ala
             115                 120                 125

     Glu Pro Ala Arg Pro Asp Ile Thr Tyr Gln Glu Pro Gln Gly Thr Gln
         130                 135                 140

     Pro Ala Gln Gln Gln Gln Pro Cys Leu Tyr Glu Ile Lys Gln Phe Leu
     145                 150                 155                 160

     Glu Cys Ala Gln Asn Gln Gly Asp Ile Lys Leu Cys Glu Gly Phe Asn
                     165                 170                 175

     Glu Val Leu Lys Gln Cys Arg Leu Ala Asn Gly Leu Ala
                     180                 185
```

<210> 907
<211> 638
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (427)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 907
Tyr Val Gln Gly Tyr Ser Leu Ser Gln Ala Asp Val Asp Ala Phe Arg
  1   5   10   15

Gln Leu Ser Ala Pro Pro Ala Asp Pro Gln Leu Phe His Val Ala Arg
            20   25   30

Trp Phe Arg His Ile Glu Ala Leu Leu Gly Xaa Pro Cys Gly Lys Gly
        35   40   45

Gln Pro Cys Xaa Leu Pro Ser Xaa Gln Arg Pro Ala Cys Ala Ala Pro
    50   55   60

Val Val Pro Ser Cys Trp Asp Pro Xaa Cys Arg Leu His Leu Tyr Asn
 65   70   75   80

Ser Leu Thr Arg Asn Lys Glu Val Phe Ile Pro Gln Asp Gly Lys Lys
            85   90   95

Val Thr Trp Tyr Cys Cys Gly Pro Thr Val Tyr Asp Ala Ser His Met
            100   105   110

Gly His Ala Arg Ser Tyr Ile Ser Phe Asp Ile Leu Arg Arg Val Leu
        115   120   125

Lys Asp Tyr Phe Lys Phe Asp Val Phe Tyr Cys Met Asn Ile Thr Asp
    130   135   140

Ile Asp Asp Lys Ile Ile Lys Arg Ala Arg Gln Asn His Leu Phe Glu
145   150   155   160

Gln Tyr Arg Glu Lys Arg Pro Glu Ala Ala Gln Leu Leu Glu Asp Val
            165   170   175

Gln Ala Ala Leu Lys Pro Phe Ser Val Lys Leu Asn Glu Thr Thr Asp
            180   185   190

Pro Asp Lys Lys Gln Met Leu Glu Arg Ile Gln His Ala Val Gln Leu
        195   200   205

Ala Thr Glu Pro Leu Glu Lys Ala Val Gln Ser Arg Leu Thr Gly Glu

```
                    210                    215                    220

        Glu Val Asn Ser Cys Val Glu Val Leu Leu Glu Glu Ala Lys Asp Leu
        225              230                    235              240

        Leu Ser Asp Trp Leu Asp Ser Thr Leu Gly Cys Asp Val Thr Asp Asn
                        245                    250              255

        Ser Ile Phe Ser Lys Leu Pro Lys Phe Trp Glu Gly Asp Phe His Arg
                        260                    265              270

        Asp Met Glu Ala Leu Asn Val Leu Pro Pro Asp Val Leu Thr Arg Val
                275                    280              285

        Ser Glu Tyr Val Pro Glu Ile Val Asn Phe Val Gln Lys Ile Val Asp
                290                    295              300

        Asn Gly Tyr Gly Tyr Val Ser Asn Gly Ser Val Tyr Phe Asp Thr Ala
        305                  310                    315              320

        Lys Phe Ala Ser Ser Glu Lys His Ser Tyr Gly Lys Leu Val Pro Glu
                        325                    330              335

        Ala Val Gly Asp Gln Lys Ala Leu Gln Glu Gly Glu Gly Asp Leu Ser
                        340                    345              350

        Ile Ser Ala Asp Arg Leu Ser Glu Lys Arg Ser Pro Asn Asp Phe Ala
                        355                    360              365

        Leu Trp Lys Ala Ser Lys Pro Gly Glu Pro Ser Trp Pro Cys Pro Trp
                370              375                    380

        Gly Lys Gly Arg Pro Gly Trp His Ile Glu Cys Ser Ala Met Ala Gly
        385                  390                    395              400

        Thr Leu Leu Gly Ala Ser Met Asp Ile His Gly Gly Gly Phe Asp Leu
                        405                    410              415

        Arg Phe Pro His His Asp Asn Glu Leu Ala Xaa Ser Glu Ala Tyr Phe
                        420                    425              430

        Glu Asn Asp Cys Trp Val Arg Tyr Phe Leu His Thr Gly His Leu Thr
                        435                    440              445

        Ile Ala Gly Cys Lys Met Ser Lys Ser Leu Lys Asn Phe Ile Thr Ile
                450              455                    460

        Lys Asp Ala Leu Lys Lys His Ser Ala Arg Gln Leu Arg Leu Ala Phe
        465                  470                    475              480

        Leu Met His Ser Trp Lys Asp Thr Leu Asp Tyr Ser Ser Asn Thr Met
```

858


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                    485                   490                   495

Glu Ser Ala Leu Gln Tyr Glu Lys Phe Leu Asn Glu Phe Phe Leu Asn
            500                   505                   510

Val Lys Asp Ile Leu Arg Ala Pro Val Asp Ile Thr Gly Gln Phe Glu
            515                   520                   525

Lys Trp Gly Glu Glu Glu Ala Glu Leu Asn Lys Asn Phe Tyr Asp Lys
            530                   535                   540

Lys Thr Ala Ile His Lys Ala Leu Cys Asp Asn Val Asp Thr Arg Thr
545                   550                   555                   560

Val Met Glu Glu Met Arg Ala Leu Val Ser Gln Cys Asn Leu Tyr Met
                565                   570                   575

Ala Ala Arg Lys Ala Val Arg Lys Arg Pro Asn Gln Ala Leu Leu Glu
            580                   585                   590

Asn Ile Ala Leu Tyr Leu Thr His Met Leu Lys Ile Phe Gly Ala Val
            595                   600                   605

Glu Glu Asp Ser Ser Leu Gly Phe Pro Val Gly Gly Pro Gly Thr Ser
            610                   615                   620

Leu Ser Leu Glu Ala Thr Val Met Pro Tyr Leu Gln Val Leu
625                   630                   635
```


<210> 908
<211> 248
<212> PRT
<213> Homo sapiens

<400> 908
```
Ser His Pro Leu Arg Ser Arg Leu Pro Ser Ala Thr Gly Val Gly His
1               5                   10                  15

Ala Leu Ala Arg Ser Phe Cys Arg His Leu Gly Ser Ala Phe Pro Ala
            20                  25                  30

Gln Asn Ala Arg Arg Ser Thr Glu Thr Val Pro Ala Thr Glu Gln Glu
            35                  40                  45

Leu Pro Gln Pro Gln Ala Glu Thr Gly Ser Gly Thr Glu Ser Asp Ser
        50                  55                  60

Asp Glu Ser Val Pro Glu Leu Glu Glu Gln Asp Ser Thr Gln Ala Thr
65                  70                  75                  80
```

```
Thr Gln Gln Ala Gln Leu Ala Ala Ala Glu Ile Asp Glu Glu Pro
             85                  90              95

Val Ser Lys Ala Lys Gln Ser Arg Ser Glu Lys Lys Ala Arg Lys Ala
            100              105             110

Met Ser Lys Leu Gly Leu Arg Gln Val Thr Gly Val Thr Arg Val Thr
            115              120             125

Ile Arg Lys Ser Lys Asn Ile Leu Phe Val Ile Thr Lys Pro Asp Val
        130              135         140

Tyr Lys Ser Pro Ala Ser Asp Thr Tyr Ile Val Phe Gly Glu Ala Lys
145              150              155             160

Ile Glu Asp Leu Ser Gln Gln Ala Gln Leu Ala Ala Ala Glu Lys Phe
            165              170             175

Lys Val Gln Gly Glu Ala Val Ser Asn Ile Gln Glu Asn Thr Gln Thr
            180              185             190

Pro Thr Val Gln Glu Glu Ser Glu Glu Glu Val Asp Glu Thr Gly
            195              200             205

Val Glu Val Lys Asp Ile Glu Leu Val Met Ser Gln Ala Asn Val Ser
    210              215             220

Arg Ala Lys Ala Val Arg Ala Leu Lys Asn Asn Ser Asn Asp Ile Val
225              230              235             240

Asn Ala Ile Met Glu Leu Thr Met
                245
```

<210> 909
<211> 161
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (158)
<223> Xaa equals any of th naturally occurring L-amino acids

860

<400> 909
Gln Gly Cys Cys Tyr Gly Ala Gly Arg Arg Val Ala Arg Leu Leu Ala
  1   5   10   15

Pro Leu Met Trp Arg Arg Ala Val Ser Ser Val Ala Gly Ser Ala Val
             20   25   30

Gly Ala Glu Pro Gly Leu Arg Leu Leu Ala Val Gln Arg Xaa Pro Val
         35   40   45

Glu Gln Arg Ser Ala Gly Leu Ala Arg Pro Gln Thr Leu Ser Ala Ala
     50   55   60

Cys Thr Ala Lys Pro Gly Leu Glu Glu Arg Ala Glu Gly Thr Val Asn
 65   70   75   80

Glu Gly Arg Pro Glu Ser Asp Ala Ala Asp His Thr Gly Pro Lys Phe
             85   90   95

Asp Ile Asp Met Met Val Ser Leu Leu Arg Gln Glu Asn Ala Arg Asp
             100   105   110

Ile Cys Val Ile Gln Val Pro Pro Glu Met Arg Tyr Thr Asp Tyr Phe
         115   120   125

Val Ile Val Ser Gly Thr Ser Thr Arg His Leu His Ala Met Ala Phe
     130   135   140

Tyr Val Val Lys Met Tyr Lys His Leu Lys Cys Lys Arg Xaa Pro Ser
145   150   155   160

Cys

<210> 910
<211> 487
<212> PRT
<213> Homo sapiens

<400> 910
Lys Ala Ala Ser Gly Pro Ala Thr Ser Ile Thr Gly Val Thr Met Gly
  1   5   10   15

Ala Val Leu Gly Val Phe Ser Leu Ala Ser Trp Val Pro Cys Leu Cys
             20   25   30

Ser Gly Ala Ser Cys Leu Leu Cys Ser Cys Cys Pro Asn Ser Lys Asn
         35   40   45

```
Ser Thr Val Thr Arg Leu Ile Tyr Ala Phe Ile Leu Leu Leu Ser Thr
    50              55              60

Val Val Ser Tyr Ile Met Gln Arg Lys Glu Met Glu Thr Tyr Leu Lys
65              70              75              80

Lys Ile Pro Gly Phe Cys Glu Gly Gly Phe Lys Ile His Glu Ala Asp
            85              90              95

Ile Asn Ala Asp Lys Asp Cys Asp Val Leu Val Gly Tyr Lys Ala Val
            100             105             110

Tyr Arg Ile Ser Phe Ala Met Ala Ile Phe Phe Phe Val Phe Ser Leu
        115             120             125

Leu Met Phe Lys Val Lys Thr Ser Lys Asp Leu Arg Ala Ala Val His
    130             135             140

Asn Gly Phe Trp Phe Phe Lys Ile Ala Ala Leu Ile Gly Ile Met Val
145             150             155             160

Gly Ser Phe Tyr Ile Pro Gly Gly Tyr Phe Ser Ser Val Trp Phe Val
            165             170             175

Val Gly Met Ile Gly Ala Ala Leu Phe Ile Leu Ile Gln Leu Val Leu
            180             185             190

Leu Val Asp Phe Ala His Ser Trp Asn Glu Ser Trp Val Asn Arg Met
        195             200             205

Glu Glu Gly Asn Pro Arg Leu Trp Tyr Ala Ala Leu Leu Ser Phe Thr
    210             215             220

Ser Ala Phe Tyr Ile Leu Ser Ile Ile Cys Val Gly Leu Leu Tyr Thr
225             230             235             240

Tyr Tyr Thr Lys Pro Asp Gly Cys Thr Glu Asn Lys Phe Phe Ile Ser
            245             250             255

Ile Asn Leu Ile Leu Cys Val Val Ala Ser Ile Ile Ser Ile His Pro
            260             265             270

Lys Ile Gln Glu His Gln Pro Arg Ser Gly Leu Leu Gln Ser Ser Leu
        275             280             285

Ile Thr Leu Tyr Thr Met Tyr Leu Thr Trp Ser Ala Met Ser Asn Glu
    290             295             300

Pro Asp Arg Ser Cys Asn Pro Asn Leu Met Ser Phe Ile Thr Arg Ile
305             310             315             320
```

Thr Ala Pro Thr Leu Ala Pro Gly Asn Ser Thr Ala Val Val Pro Thr
            325   330   335

Pro Thr Pro Pro Ser Lys Ser Gly Ser Leu Leu Asp Ser Asp Asn Phe
            340   345   350

Ile Gly Leu Phe Val Phe Val Leu Cys Leu Leu Tyr Ser Ser Ile Arg
            355   360   365

Thr Ser Thr Asn Ser Gln Val Asp Lys Leu Thr Leu Ser Gly Ser Asp
    370   375   380

Ser Val Ile Leu Gly Asp Thr Thr Thr Ser Gly Ala Ser Asp Glu Glu
385   390   395   400

Asp Gly Gln Pro Arg Arg Ala Val Asp Asn Glu Lys Glu Gly Val Gln
            405   410   415

Tyr Ser Tyr Ser Leu Phe His Leu Met Leu Cys Leu Ala Ser Leu Tyr
            420   425   430

Ile Met Met Thr Leu Thr Ser Trp Tyr Ser Pro Asp Ala Lys Phe Gln
            435   440   445

Ser Met Thr Ser Lys Trp Pro Ala Val Trp Val Lys Ile Ser Ser Ser
    450   455   460

Trp Val Cys Leu Leu Leu Tyr Val Trp Thr Leu Val Ala Pro Leu Val
465   470   475   480

Leu Thr Ser Arg Asp Phe Ser
            485

<210> 911
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 911
Asp Pro Arg Val Arg His Arg Gly Asn Lys Val Val Lys Lys Lys Val
1   5   10   15

Leu Val Arg Cys Arg His Phe Ile Cys Pro His Ser Leu Arg Leu Ser
            20   25   30

```
Gln Ser Phe Gln Gln Arg Tyr Val Gly Pro Glu His Pro Glu Phe Thr
        35              40              45

Thr Ser Val Val Arg Arg Ala Thr Met Arg Arg Ala Leu Gly Arg Ile
        50              55              60

Cys His Phe Gln Xaa Val Arg Gly Thr Ala Ser Leu Gly Glu Gly Ala
65              70              75              80

Leu Gly Cys Asp Ser Arg Thr Cys Lys Ala Ala Ser Gly Leu Trp Arg
                85              90              95

Gly Arg
```

```
<210> 912
<211> 206
<212> PRT
<213> Homo sapiens

<400> 912
Phe Ser Leu Phe Pro Leu Ala Lys Ser Phe Asp Asp Gly Asp Tyr Phe
 1           5              10              15

Pro Val Trp Gly Thr Cys Leu Gly Phe Glu Glu Leu Ser Leu Leu Ile
            20              25              30

Ser Gly Glu Cys Leu Leu Thr Ala Thr Asp Thr Val Asp Val Ala Met
        35              40              45

Pro Leu Asn Phe Thr Gly Gly Gln Leu His Ser Arg Met Phe Gln Asn
    50              55              60

Phe Pro Thr Glu Leu Leu Leu Ser Leu Ala Val Glu Pro Leu Thr Ala
65              70              75              80

Asn Phe His Lys Trp Ser Leu Ser Val Lys Asn Phe Thr Met Asn Glu
            85              90              95

Lys Leu Lys Lys Phe Phe Asn Val Leu Thr Thr Asn Thr Asp Gly Lys
        100             105             110

Ile Glu Phe Ile Ser Thr Met Glu Gly Tyr Lys Tyr Pro Val Tyr Gly
        115             120             125

Val Gln Trp His Pro Glu Lys Ala Pro Tyr Glu Trp Lys Asn Leu Asp
    130             135             140
```

```
Gly Ile Ser His Ala Pro Asn Ala Val Lys Thr Ala Phe Tyr Leu Ala
145                 150             155             160

Glu Phe Phe Val Asn Glu Ala Arg Lys Asn Asn His His Phe Lys Ser
                165             170             175

Glu Ser Glu Glu Glu Lys Ala Leu Ile Tyr Gln Phe Ser Pro Ile Tyr
                180             185             190

Thr Gly Asn Ile Ser Ser Phe Gln Gln Cys Tyr Ile Phe Asp
            195             200             205
```

<210> 913
<211> 91
<212> PRT
<213> Homo sapiens

<400> 913
```
Phe Ser Gly Pro Cys Pro Val Asn Thr Leu Gly Trp Glu Val Ser Ser
 1               5                  10                  15

Phe Ser Pro Leu Leu Ser Ser Cys Leu Asn Met Val Arg Thr Lys Ala
                20                  25                  30

Asp Ser Val Pro Gly Thr Tyr Arg Lys Val Val Ala Ala Arg Ala Pro
                35                  40                  45

Arg Lys Val Leu Gly Ser Ser Thr Ser Ala Thr Asn Ser Thr Ser Val
     50                  55                  60

Ser Ser Arg Lys Glu His Val Leu Cys Asn Leu Ile Thr Gln Met Met
65                  70                  75                  80

Lys Lys Asn Arg Thr Phe Ser Phe Ile Phe Glu
                85                  90
```

<210> 914
<211> 178
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

865

```
<221> SITE
<222> (147)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (154)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 914
Arg Glu Leu Ser Thr Arg Gln Arg Ser Gln Ala Lys Pro Pro Ala Ser
 1               5                  10                 15

Met Ala Ser Glu Phe Lys Lys Lys Leu Phe Trp Arg Ala Val Val Ala
             20                  25                 30

Glu Phe Leu Ala Thr Thr Leu Phe Val Phe Ile Ser Ile Gly Ser Ala
         35                  40                 45

Leu Gly Phe Lys Tyr Pro Val Gly Asn Asn Gln Thr Ala Val Gln Asp
     50                  55                 60

Asn Val Lys Val Ser Leu Ala Phe Gly Leu Ser Ile Ala Thr Leu Ala
 65                  70                 75                 80

Gln Ser Val Gly His Ile Ser Gly Ala His Leu Asn Pro Ala Val Thr
             85                  90                 95

Leu Gly Leu Leu Leu Ser Cys Gln Ile Ser Ile Phe Arg Ala Leu Met
             100                 105                110

Tyr Ile Ile Ala Gln Cys Val Gly Ala Ile Val Ala Thr Ala Ile Leu
             115                 120                125

Ser Gly Ile Xaa Ser Ser Leu Thr Gly Asn Ser Leu Gly Arg Asn Asp
     130                 135                 140

Leu Ala Xaa Gly Val Asn Phe Gly Pro Xaa Pro Gly His Arg Asp His
145                 150                 155                160

Arg Asp Pro Pro Ala Gly Ala Met Arg Ala Gly Tyr Tyr Arg Pro Glu
             165                 170                175

Ala Pro



<210> 915
<211> 377
<212> PRT
```

<213> Homo sapiens

<220>
<221> SITE
<222> (355)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 915
Val Cys Ala His Gly Gln Gly Leu Leu Arg Tyr Phe Tyr Ser Arg Arg
 1   5   10   15

Ile Asp Ile Thr Leu Ser Ser Val Lys Cys Phe His Lys Leu Ala Ser
              20   25   30

Ala Tyr Gly Ala Arg Gln Leu Gln Gly Tyr Cys Ala Ser Leu Phe Ala
          35   40   45

Ile Leu Leu Pro Gln Asp Pro Ser Phe Gln Met Pro Leu Asp Leu Tyr
      50   55   60

Ala Tyr Ala Val Ala Thr Gly Asp Ala Leu Leu Glu Lys Leu Cys Leu
65   70   75   80

Gln Phe Leu Ala Trp Asn Phe Glu Ala Leu Thr Gln Ala Glu Ala Trp
                  85   90   95

Pro Ser Val Pro Thr Asp Leu Leu Gln Leu Leu Leu Pro Arg Ser Asp
              100   105   110

Leu Ala Val Pro Ser Glu Leu Ala Leu Leu Lys Ala Val Asp Thr Trp
          115   120   125

Ser Trp Gly Glu Arg Ala Ser His Glu Glu Val Glu Gly Leu Val Glu
      130   135   140

Lys Ile Arg Phe Pro Met Met Leu Pro Glu Glu Leu Phe Glu Leu Gln
145   150   155   160

Phe Asn Leu Ser Leu Tyr Trp Ser His Glu Ala Leu Phe Gln Lys Lys
              165   170   175

Thr Leu Gln Ala Leu Glu Phe His Thr Val Pro Phe Gln Leu Leu Ala
          180   185   190

Arg Tyr Lys Gly Leu Asn Leu Thr Glu Asp Thr Tyr Lys Pro Arg Ile
          195   200   205

Tyr Thr Ser Pro Thr Trp Ser Ala Phe Val Thr Asp Ser Ser Trp Ser
      210   215   220

Ala Arg Lys Ser Gln Leu Val Tyr Gln Ser Arg Arg Gly Pro Leu Val

```
             225                    230                   235                    240
        Lys Tyr Ser Ser Asp Tyr Phe Gln Ala Pro Ser Asp Tyr Arg Tyr Tyr
                    245                   250                   255

        Pro Tyr Gln Ser Phe Gln Thr Pro Gln His Pro Ser Phe Leu Phe Gln
                    260                   265                   270

        Asp Lys Arg Val Ser Trp Ser Leu Val Tyr Leu Pro Thr Ile Gln Ser
                    275                   280                   285

        Cys Trp Asn Tyr Gly Phe Ser Cys Ser Ser Asp Glu Leu Pro Val Leu
            290                   295                   300

        Gly Leu Thr Lys Ser Gly Gly Ser Asp Arg Thr Ile Ala Tyr Glu Asn
        305                   310                   315                   320

        Lys Ala Leu Met Leu Cys Glu Gly Leu Phe Val Ala Asp Val Thr Asp
                    325                   330                   335

        Phe Glu Gly Trp Lys Ala Ala Ile Pro Ser Ala Leu Asp Thr Asn Ser
                    340                   345                   350

        Ser Lys Xaa Thr Ser Ser Phe Pro Cys Pro Ala Gly Thr Ser Thr Ala
                    355                   360                   365

        Ser Ala Arg Ser Ser Ala Pro Ser Thr
            370                   375
```

```
<210> 916
<211> 100
<212> PRT
<213> Homo sapiens

<400> 916
Arg Val Gln Arg Asp Thr Cys Leu Pro Pro Met Ser Leu Ser Phe His
  1               5                  10                  15

Leu Pro Ser Arg Arg Met Lys Asn Pro Ser Ile Val Gly Val Leu Cys
            20                  25                  30

Thr Asp Ser Gln Gly Leu Asn Leu Gly Cys Arg Gly Thr Leu Ser Asp
            35                  40                  45

Glu His Ala Gly Val Ile Ser Val Leu Ala Gln Gln Ala Ala Lys Leu
        50                  55                  60

Thr Ser Asp Pro Thr Asp Ile Pro Val Val Cys Leu Glu Ser Asp Asn
65                  70                  75                  80
```

Gly Asn Ile Met Ile Gln Lys His Asp Gly Ile Thr Val Ala Val His
                85   90   95

Lys Met Ala Ser
            100

<210> 917
<211> 245
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (240)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (242)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 917
Leu Pro Pro Arg Ser Val Gly Gly Leu Gln Lys Met Arg Arg Lys Leu
  1   5   10   15

Gly Leu Val Gln Val Glu Leu Glu Glu Asp Gly Ala Leu Val Ser Lys
            20   25   30

```
    Leu Leu Glu Thr Met His Leu Thr Gly Ala Asp Xaa Thr Asn Thr Phe
            35              40                  45

    Tyr Leu Leu Ser Ser Phe Pro Val Glu Leu Glu Ser Pro Gly Leu Xaa
            50              55                  60

    Glu Phe Leu Ala Arg Leu Met Glu Gln Cys Ala Ser Leu Glu Glu Leu
    65                  70                  75                      80

    Arg Leu Ala Phe Arg Pro Xaa Met Asp Pro Arg Gln Leu Ser Met Met
                    85                  90                  95

    Leu Met Leu Ala Gln Ser Asn Pro Gln Leu Phe Ala Leu Met Gly Thr
                    100             105             110

    Arg Ala Gly Ile Ala Arg Glu Leu Glu Arg Val Glu Gln Gln Ser Arg
                115             120             125

    Leu Glu Gln Leu Ser Ala Ala Glu Leu Gln Ser Arg Asn Gln Gly His
            130             135             140

    Trp Ala Asp Trp Leu Gln Ala Tyr Arg Ala Arg Leu Asp Lys Asp Leu
    145             150             155             160

    Glu Gly Ala Gly Asp Ala Ala Ala Trp Gln Ala Xaa Ala Arg Ala Arg
                    165             170             175

    Asp Ala Arg Gln Gln Pro Glu Val Arg Ala Glu Glu Leu His Ser Arg
                    180             185             190

    Arg Met Pro Phe Glu Val Ala Glu Arg Gly Asp Phe Ser Glu Val Arg
                195             200             205

    Arg Val Leu Lys Leu Phe Glu Thr Leu Tyr His Cys Glu Ala Gly Ala
            210             215             220

    Ala Thr Arg Arg Pro Arg Pro Arg Glu Ala Asp Gly Gly Gly Arg Xaa
    225             230             235             240

    Gly Xaa Phe Leu Thr
                245
```

```
<210> 918
<211> 44
<212> PRT
<213> Homo sapiens

<400> 918
Asn Ser Ala Arg Arg Ile Ser Leu Lys Glu Gly Glu Gly Lys Thr Asp
```

870

```
       1                  5                    10                   15
   Phe Leu Cys Gly Thr Lys Thr Lys Pro Ser Val Ser Leu Cys Glu Gln
                   20                  25                  30

   Arg Cys Lys Lys Glu Glu Thr Gln Phe Thr His Gly
               35                  40
```

<210> 919
<211> 160
<212> PRT
<213> Homo sapiens

<400> 919
```
   Phe Gly Thr Arg Val Thr Ser Gly Gly Ser Arg Asp Ala Val Pro Gly
    1                  5                    10                 15

   Ala Glu Pro Pro Lys Met Ala Val Cys Ile Ala Val Ile Ala Lys Glu
                   20                  25                  30

   Asn Tyr Pro Leu Tyr Ile Arg Ser Thr Pro Thr Glu Asn Glu Leu Lys
               35                  40                  45

   Phe His Tyr Met Val His Thr Ser Leu Asp Val Val Asp Glu Lys Ile
           50                  55                  60

   Ser Ala Met Gly Lys Ala Leu Val Asp Gln Arg Glu Leu Tyr Leu Gly
    65                  70                  75                  80

   Leu Leu Tyr Pro Thr Glu Asp Tyr Lys Val Tyr Gly Tyr Val Thr Asn
                   85                  90                  95

   Ser Lys Val Lys Phe Val Met Val Val Asp Ser Ser Asn Thr Ala Leu
                   100                 105                 110

   Arg Asp Asn Glu Ile Arg Ser Met Phe Arg Lys Leu His Asn Ser Tyr
               115                 120                 125

   Thr Asp Val Met Cys Asn Pro Phe Tyr Asn Pro Gly Asp Arg Ile Gln
           130                 135                 140

   Ser Arg Ala Phe Asp Asn Met Val Thr Ser Met Met Ile Gln Val Cys
   145                 150                 155                 160
```

```
<210> 920
<211> 40
<212> PRT
<213> Homo sapiens

<400> 920
Leu Ala Phe Phe Leu Thr Ser Glu Gly Glu Lys Lys Val Ala Thr Tyr
 1               5                  10                  15

Met Phe Glu Lys Pro Leu Lys Ser Thr Gln Ser Lys Asp Phe Met Leu
            20                  25                  30

Gln Phe Gly His Met Leu Arg Val
        35                  40



<210> 921
<211> 372
<212> PRT
<213> Homo sapiens

<400> 921
Leu Leu Gly Pro Ala Gly Gln Arg Ser His Ala Ala Pro Met Arg Pro
 1               5                  10                  15

Leu Pro Pro Val Gly Asp Val Arg Leu Glu Leu Ser Pro Pro Pro Pro
            20                  25                  30

Leu Leu Pro Val Pro Val Val Ser Gly Ser Pro Val Gly Ser Ser Gly
        35                  40                  45

Arg Leu Met Ala Ser Ser Ser Ser Leu Val Pro Asp Arg Leu Arg Leu
    50                  55                  60

Pro Leu Cys Phe Leu Gly Val Phe Val Cys Tyr Phe Tyr Tyr Gly Ile
65                  70                  75                  80

Leu Gln Glu Lys Ile Thr Arg Gly Lys Tyr Gly Glu Gly Ala Lys Gln
                85                  90                  95

Glu Thr Phe Thr Phe Ala Leu Thr Leu Val Phe Ile Gln Cys Val Ile
            100                 105                 110

Asn Ala Val Phe Ala Lys Ile Leu Ile Gln Phe Phe Asp Thr Ala Arg
        115                 120                 125

Val Asp Arg Thr Arg Ser Trp Leu Tyr Ala Ala Cys Ser Ile Ser Tyr
    130                 135                 140

Leu Gly Ala Met Val Ser Ser Asn Ser Ala Leu Gln Phe Val Asn Tyr
```

| | 145 | | | | | 150 | | | | | 155 | | | | | 160 |

Pro Thr Gln Val Leu Gly Lys Ser Cys Lys Pro Ile Pro Val Met Leu
            165   170   175

Leu Gly Val Thr Leu Leu Lys Lys Lys Tyr Pro Leu Ala Lys Tyr Leu
            180   185   190

Cys Val Leu Leu Ile Val Ala Gly Val Ala Leu Phe Met Tyr Lys Pro
            195   200   205

Lys Lys Val Val Gly Ile Glu Glu His Thr Val Gly Tyr Gly Glu Leu
    210   215   220

Leu Leu Leu Leu Ser Leu Thr Leu Asp Gly Leu Thr Gly Val Ser Gln
225   230   235   240

Asp His Met Arg Ala His Tyr Gln Thr Gly Ser Asn His Met Met Leu
            245   250   255

Asn Ile Asn Leu Trp Ser Thr Leu Leu Leu Gly Met Gly Ile Leu Phe
            260   265   270

Thr Gly Glu Leu Trp Glu Phe Leu Ser Phe Ala Glu Arg Tyr Pro Ala
            275   280   285

Ile Ile Tyr Asn Ile Leu Leu Phe Gly Leu Thr Ser Ala Leu Gly Gln
    290   295   300

Ser Phe Ile Phe Met Thr Val Val Tyr Phe Gly Pro Leu Thr Cys Ser
305   310   315   320

Ile Ile Thr Thr Thr Arg Lys Phe Phe Thr Ile Leu Ala Ser Val Ile
            325   330   335

Leu Phe Ala Asn Pro Ile Ser Pro Met Gln Trp Val Gly Thr Val Leu
            340   345   350

Val Phe Leu Gly Leu Gly Leu Asp Ala Lys Phe Gly Lys Gly Ala Lys
            355   360   365

Lys Thr Ser His
    370

<210> 922
<211> 363
<212> PRT
<213> Homo sapiens

<400> 922
Pro Ala Arg Thr Met Phe Tyr Ala His Phe Val Leu Ser Lys Arg Gly
  1   5   10   15

Pro Leu Ala Lys Ile Trp Leu Ala Ala His Trp Asp Lys Lys Leu Thr
                20   25   30

Lys Ala His Val Phe Glu Cys Asn Leu Glu Ser Ser Val Glu Ser Ile
          35   40   45

Ile Ser Pro Lys Val Lys Met Ala Leu Arg Thr Ser Gly His Leu Leu
      50   55   60

Leu Gly Val Val Arg Ile Tyr His Arg Lys Ala Lys Tyr Leu Leu Ala
65   70   75   80

Asp Cys Asn Glu Ala Phe Ile Lys Ile Lys Met Ala Phe Arg Pro Gly
              85   90   95

Val Val Asp Leu Pro Glu Glu Asn Arg Glu Ala Ala Tyr Asn Ala Ile
          100   105   110

Thr Leu Pro Glu Glu Phe His Asp Phe Asp Gln Pro Leu Pro Asp Leu
          115   120   125

Asp Asp Ile Asp Val Ala Gln Gln Phe Ser Leu Asn Gln Ser Arg Val
      130   135   140

Glu Glu Ile Thr Met Arg Glu Glu Val Gly Asn Ile Ser Ile Leu Gln
145   150   155   160

Glu Asn Asp Phe Gly Asp Phe Gly Met Asp Asp Arg Glu Ile Met Arg
              165   170   175

Glu Gly Ser Ala Phe Glu Asp Asp Asp Met Leu Val Ser Thr Thr Thr
              180   185   190

Ser Asn Leu Leu Leu Glu Ser Glu Gln Ser Thr Ser Asn Leu Asn Glu
          195   200   205

Lys Ile Asn His Leu Glu Tyr Glu Asp Gln Tyr Lys Asp Asp Asn Phe
      210   215   220

Gly Glu Gly Asn Asp Gly Gly Ile Leu Asp Asp Lys Leu Ile Ser Asn
225   230   235   240

Asn Asp Gly Gly Ile Phe Asp Asp Pro Pro Ala Leu Ser Glu Ala Gly
              245   250   255

Val Met Leu Pro Glu Gln Pro Ala His Asp Asp Met Asp Glu Asp Asp
              260   265   270

```
Asn Val Ser Met Gly Gly Pro Asp Ser Pro Asp Ser Val Asp Pro Val
        275             280             285

Glu Pro Met Pro Thr Met Thr Asp Gln Thr Thr Leu Val Pro Asn Glu
        290             295             300

Glu Glu Ala Phe Ala Leu Glu Pro Ile Asp Ile Thr Val Lys Glu Thr
305             310             315             320

Lys Ala Lys Arg Lys Arg Lys Leu Ile Val Asp Ser Val Lys Glu Leu
            325             330             335

Asp Ser Lys Thr Ile Arg Ala Gln Leu Ser Asp Tyr Ser Asp Ile Val
            340             345             350

Thr Thr Leu Asp Leu Ala Pro Pro Pro Arg Asn
            355             360
```

```
<210> 923
<211> 296
<212> PRT
<213> Homo sapiens

<400> 923
Val Ala Val Ile Trp Ala Tyr Trp Leu Gly Leu Lys Val Arg Arg Glu
 1           5               10              15

Tyr Arg Lys Phe Phe Arg Ala Asn Ala Gly Lys Lys Ile Tyr Glu Phe
            20              25              30

Thr Leu Gln Arg Ile Val Gln Lys Tyr Phe Leu Glu Met Lys Asn Lys
            35              40              45

Met Pro Ser Leu Ser Pro Ile Asp Lys Asn Trp Pro Ser Arg Pro Tyr
        50              55              60

Leu Phe Leu Asp Ser Thr His Lys Glu Leu Lys Arg Ile Phe His Leu
65              70              75              80

Trp Arg Cys Lys Lys Tyr Arg Asp Gln Phe Thr Asp Gln Gln Lys Leu
            85              90              95

Ile Tyr Glu Glu Lys Leu Glu Ala Ser Glu Leu Phe Lys Asp Lys Lys
            100             105             110

Ala Leu Tyr Pro Ser Ser Val Gly Gln Pro Phe Gln Gly Ala Tyr Leu
            115             120             125
```

```
Glu Ile Asn Lys Asn Pro Lys Tyr Lys Lys Leu Lys Asp Ala Ile Glu
    130                 135                 140

Glu Lys Ile Ile Ile Ala Glu Val Val Asn Lys Ile Asn Arg Ala Asn
145                 150                 155                 160

Gly Lys Ser Thr Ser Arg Ile Phe Leu Leu Thr Asn Asn Asn Leu Leu
                165                 170                 175

Leu Ala Asp Gln Lys Ser Gly Gln Ile Lys Ser Glu Val Pro Leu Val
                180                 185                 190

Asp Val Thr Lys Val Ser Met Ser Ser Gln Asn Asp Gly Phe Phe Ala
        195                 200                 205

Val His Leu Lys Glu Gly Ser Glu Ala Ala Ser Lys Gly Asp Phe Leu
    210                 215                 220

Phe Ser Ser Asp His Leu Ile Glu Met Ala Thr Lys Leu Tyr Arg Thr
225                 230                 235                 240

Thr Leu Ser Gln Thr Lys Gln Lys Leu Asn Ile Glu Ile Ser Asp Glu
                245                 250                 255

Phe Leu Val Gln Phe Arg Gln Asp Lys Val Cys Val Lys Phe Ile Gln
            260                 265                 270

Gly Asn Gln Lys Asn Gly Ser Val Pro Thr Cys Lys Arg Lys Asn Asn
            275                 280                 285

Arg Leu Leu Glu Val Ala Val Pro
    290                 295
```

```
<210> 924
<211> 91
<212> PRT
<213> Homo sapiens

<400> 924
His Phe Ser Ile Asn Tyr Asn Gln Lys Ser Asp Leu Leu Lys Glu Lys
1               5                   10                  15

Ser Asp Cys Lys Ser Phe Gln Gly Gln Thr Ala Thr Glu Pro Pro Thr
            20                  25                  30

Pro Lys Gln Glu Thr Leu Val Lys Val Gln Glu Ala Arg Arg Phe Ser
        35                  40                  45

Pro Thr Lys Val Gln Leu Gly Asn Asp Ala Glu Arg Met Thr Thr Thr
```

```
            50                   55                   60

Cys Asn Ser Arg Lys Met Leu Ala Ser Arg Val Arg Val Thr Ser Glu
 65              70              75                      80

Cys His Lys Ser Ser Leu Ser His Cys Leu Ile
                85                  90
```

<210> 925
<211> 159
<212> PRT
<213> Homo sapiens

<400> 925
```
Asn Ser Ala Arg Ala Gly Gly Arg Ala Val Leu Ser Gly Glu Pro Glu
 1               5                   10                      15

Ala Asn Met Asp Gln Glu Thr Val Gly Asn Val Val Leu Leu Ala Ile
                20                  25                  30

Val Thr Leu Ile Ser Val Val Gln Asn Gly Phe Phe Ala His Lys Val
            35                  40                  45

Glu His Glu Ser Arg Thr Gln Asn Gly Arg Ser Phe Gln Arg Thr Gly
        50                  55                  60

Thr Leu Ala Phe Glu Arg Val Tyr Thr Ala Asn Gln Asn Cys Val Asp
 65              70                  75                      80

Ala Tyr Pro Thr Phe Leu Ala Val Leu Trp Ser Ala Gly Leu Leu Cys
                85                  90                      95

Ser Gln Val Pro Ala Ala Phe Ala Gly Leu Met Tyr Leu Phe Val Arg
                100                 105                 110

Gln Lys Tyr Phe Val Gly Tyr Leu Gly Glu Arg Thr Gln Ser Thr Pro
            115                 120                 125

Gly Tyr Ile Phe Gly Glu Thr His His Thr Leu Pro Val Pro His Val
        130                 135                 140

Arg Cys Trp His Ile Gln Leu Leu Pro His Leu Leu Phe Arg Lys
145                 150                 155
```

<210> 926
<211> 303
<212> PRT

<213> Homo sapiens

<400> 926
Gly Ser Leu Ala Ser Pro Pro Ser Leu Gly Ser Met Gly Glu Lys Ser
1   5   10   15

Glu Asn Cys Gly Val Pro Glu Asp Leu Leu Asn Gly Leu Lys Val Thr
            20   25   30

Asp Thr Gln Glu Ala Glu Cys Ala Gly Pro Pro Val Pro Asp Pro Lys
        35   40   45

Asn Gln His Ser Gln Ser Lys Leu Leu Arg Asp Asp Glu Ala His Leu
    50   55   60

Gln Glu Asp Gln Gly Glu Glu Glu Cys Phe His Asp Cys Ser Ala Ser
65   70   75   80

Phe Glu Glu Glu Pro Gly Ala Asp Lys Val Glu Asn Lys Ser Asn Glu
            85   90   95

Asp Val Asn Ser Ser Glu Leu Asp Glu Glu Tyr Leu Ile Glu Leu Glu
            100   105   110

Lys Asn Met Ser Asp Glu Glu Lys Gln Lys Arg Arg Glu Glu Ser Thr
    115   120   125

Arg Leu Lys Glu Glu Gly Asn Glu Gln Phe Lys Lys Gly Asp Tyr Ile
    130   135   140

Glu Ala Glu Ser Ser Tyr Ser Arg Ala Leu Glu Met Cys Pro Ser Cys
145   150   155   160

Phe Gln Lys Glu Arg Ser Ile Leu Phe Ser Asn Arg Ala Ala Ala Arg
            165   170   175

Met Lys Gln Asp Lys Lys Glu Met Ala Ile Asn Asp Cys Ser Lys Ala
        180   185   190

Ile Gln Leu Asn Pro Ser Tyr Ile Arg Ala Ile Leu Arg Arg Ala Glu
    195   200   205

Leu Tyr Glu Lys Thr Asp Lys Leu Asp Glu Ala Leu Glu Asp Tyr Lys
    210   215   220

Ser Ile Leu Glu Lys Asp Pro Ser Ile His Gln Ala Arg Glu Ala Cys
225   230   235   240

Met Arg Leu Pro Lys Gln Ile Glu Glu Arg Asn Glu Arg Leu Lys Glu
            245   250   255

```
Glu Met Leu Gly Lys Leu Lys Asp Leu Gly Asn Leu Val Leu Arg Pro
        260                 265                 270

Phe Gly Leu Ser Thr Glu Asn Phe Gln Ile Lys Gln Asp Ser Ser Thr
        275                 280                 285

Gly Ser Tyr Ser Ile Asn Phe Val Gln Asn Pro Asn Asn Asn Arg
    290                 295                 300
```

<210> 927
<211> 329
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 927
```
Xaa Gly Gly Cys Cys Ser Gly Pro Gly His Ser Lys Arg Arg Arg Gln
  1               5                  10                  15

Ala Pro Gly Val Gly Ala Val Gly Gly Gly Ser Pro Glu Arg Glu Glu
            20                  25                  30

Val Gly Ala Gly Tyr Asn Ser Glu Asp Glu Tyr Glu Ala Ala Ala Ala
        35                  40                  45

Arg Ile Glu Ala Met Asp Pro Ala Thr Val Glu Gln Gln Glu His Trp
    50                  55                  60

Phe Glu Lys Ala Leu Arg Asp Lys Lys Gly Phe Ile Ile Lys Gln Met
 65                  70                  75                  80

Lys Glu Asp Gly Ala Cys Leu Phe Arg Ala Val Ala Asp Gln Val Tyr
                85                  90                  95

Gly Asp Gln Asp Met His Glu Val Val Arg Lys His Cys Met Asp Tyr
            100                 105                 110

Leu Met Lys Asn Ala Asp Tyr Phe Ser Asn Tyr Val Thr Glu Asp Phe
        115                 120                 125

Thr Thr Tyr Ile Asn Arg Lys Arg Lys Asn Asn Cys His Gly Asn His
    130                 135                 140

Ile Glu Met Gln Ala Met Ala Glu Met Tyr Asn Arg Pro Val Glu Val
145                 150                 155                 160
```

```
Tyr Gln Tyr Ser Thr Glu Pro Ile Asn Thr Phe His Gly Ile His Gln
            165             170             175

Asn Glu Asp Glu Pro Ile Arg Val Ser Tyr His Arg Asn Ile His Tyr
            180             185             190

Asn Ser Val Val Asn Pro Asn Lys Ala Thr Ile Gly Val Gly Leu Gly
        195             200             205

Leu Pro Ser Phe Lys Pro Gly Phe Ala Glu Gln Ser Leu Met Lys Asn
    210             215             220

Ala Ile Lys Thr Ser Glu Glu Ser Trp Ile Glu Gln Gln Met Leu Glu
225             230             235             240

Asp Lys Lys Arg Ala Thr Asp Trp Glu Ala Thr Asn Glu Ala Ile Glu
            245             250             255

Glu Gln Val Ala Arg Glu Ser Tyr Leu Gln Trp Leu Arg Asp Gln Glu
            260             265             270

Lys Gln Ala Arg Gln Val Arg Gly Pro Ser Gln Pro Arg Lys Ala Ser
        275             280             285

Ala Thr Cys Ser Ser Ala Thr Ala Ala Ala Ser Ser Gly Leu Glu Glu
        290             295             300

Trp Thr Ser Arg Ser Pro Arg Gln Glu Phe Gln Pro Arg His Leu Ser
305             310             315             320

Thr Leu Ser Cys Met Leu Asn Trp Ala
            325
```

<210> 928
<211> 436
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (217)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (262)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 928
Lys Arg Phe Leu Arg Asn Phe Lys Leu Leu Thr Lys Arg Glu Phe Trp
 1   5   10   15

Lys Glu Asn Gln Glu His Tyr His Ile Val Gln Lys Phe Leu Ile Leu
                20   25   30

Gly Asp Ile Asp Gly Leu Met Asp Glu Phe Ser Lys Trp Leu Ser Lys
            35   40   45

Ser Arg Asn Asn Leu Pro Gly His Leu Leu Arg Phe Met Thr His Leu
        50   55   60

Ile Leu Phe Phe Arg Thr Leu Gly Leu Gln Thr Lys Glu Glu Val Ser
65   70   75   80

Ile Glu Val Leu Lys Thr Tyr Ile Gln Leu Leu Ile Arg Glu Lys His
                85   90   95

Thr Asn Leu Ile Ala Phe Tyr Thr Cys His Leu Pro Gln Asp Leu Ala
            100   105   110

Val Ala Gln Tyr Ala Leu Phe Leu Glu Ser Val Thr Glu Phe Glu Gln
            115   120   125

Arg His His Cys Leu Glu Leu Ala Lys Glu Ala Asp Leu Asp Val Ala
        130   135   140

Thr Ile Thr Lys Thr Val Val Glu Asn Ile Arg Lys Lys Asp Asn Gly
145   150   155   160

Glu Phe Ser His His Asp Leu Ala Pro Ala Leu Asp Thr Gly Thr Thr
                165   170   175

Glu Glu Asp Arg Leu Lys Ile Asp Val Ile Asp Trp Leu Val Phe Asp
            180   185   190

Pro Ala Gln Arg Ala Glu Ala Leu Lys Gln Gly Asn Ala Ile Met Arg
            195   200   205

Lys Xaa Leu Ala Ser Lys Lys His Xaa Ala Ala Lys Glu Val Phe Val
    210   215   220

Lys Ile Pro Gln Asp Ser Ile Ala Glu Ile Tyr Asn Gln Cys Glu Glu
225   230   235   240

```
Gln Gly Met Glu Ser Pro Leu Pro Ala Glu Asp Asp Asn Ala Ile Arg
            245             250             255

Glu His Leu Cys Ile Xaa Ala Tyr Leu Glu Ala His Glu Thr Phe Asn
            260             265             270

Glu Trp Phe Lys His Met Asn Ser Val Pro Gln Lys Pro Ala Leu Ile
            275             280             285

Pro Gln Pro Thr Phe Thr Glu Lys Val Ala His Glu His Lys Glu Lys
    290             295             300

Lys Tyr Glu Met Asp Phe Gly Ile Trp Lys Gly His Leu Asp Ala Leu
305             310             315             320

Thr Ala Asp Val Lys Glu Lys Met Tyr Asn Val Leu Leu Phe Val Asp
            325             330             . 335

Gly Gly Trp Met Val Asp Val Arg Glu Asp Ala Lys Glu Asp His Glu
            340             345             350

Arg Thr His Gln Met Val Leu Leu Arg Lys Leu Cys Leu Pro Met Leu
            355             360             365

Cys Phe Leu Leu His Thr Ile Leu His Ser Thr Gly Gln Tyr Gln Glu
    370             375             380

Cys Leu Gln Leu Ala Asp Met Val Ser Ser Glu Arg His Lys Leu Tyr
385             390             395             400

Leu Val Phe Ser Lys Glu Glu Leu Arg Lys Leu Leu Gln Lys Leu Arg
            405             410             415

Glu Ser Ser Leu Met Leu Leu Asp Gln Gly Leu Asp Pro Leu Gly Tyr
            420             425             430

Glu Ile Gln Leu
            435
```

<210> 929
<211> 161
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (159)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (282)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 930
Leu Met Lys Ile Glu Ala Asn Xaa Asp His Met Gly Phe His Phe Thr
 1   5   10   15

Thr Gly Xaa Pro Ala Pro Ser Thr Glu Thr Glu Leu Asp Val Leu Leu
            20   25   30

Pro Thr Ala Thr Ser Leu Pro Ile Pro Arg Lys Ser Ala Thr Val Ile
        35   40   45

Pro Glu Ile Glu Gly Ile Lys Ala Glu Ala Lys Ala Leu Asp Asp Met
    50   55   60

Phe Glu Ser Ser Thr Leu Ser Asp Gly Gln Ala Ile Ala Asp Gln Ser
 65   70   75   80

Glu Ile Ile Pro Thr Leu Gly Gln Phe Glu Arg Thr Gln Glu Glu Tyr
                85   90   95

Glu Asp Lys Lys His Ala Gly Pro Ser Phe Gln Pro Glu Phe Ser Ser
            100   105   110

Gly Ala Glu Glu Ala Leu Val Asp His Thr Pro Tyr Leu Ser Ile Ala
            115   120   125

Thr Thr His Leu Met Asp Gln Ser Val Thr Glu Val Pro Asp Val Met
        130   135   140

Glu Gly Ser Asn Pro Pro Tyr Tyr Thr Asp Thr Thr Leu Ala Val Ser
145   150   155   160

Thr Phe Ala Lys Leu Ser Ser Gln Thr Pro Ser Ser Pro Leu Thr Ile
                165   170   175

Tyr Ser Gly Ser Glu Ala Ser Gly His Thr Glu Ile Pro Gln Pro Ser
                180   185   190

Ala Leu Pro Gly Ile Asp Val Gly Ser Ser Val Met Ser Pro Gln Asp
        195   200   205

Ser Phe Lys Glu Ile His Val Asn Ile Glu Ala Thr Phe Lys Pro Ser
    210   215   220

Ser Glu Glu Tyr Leu His Ile Thr Glu Pro Pro Ser Leu Ser Pro Asp
225   230   235   240

884

Thr Lys Leu Glu Pro Ser Glu Asp Asp Gly Lys Pro Glu Leu Leu Glu
              245   250   255

Glu Met Glu Ala Ser Pro Thr Glu Leu Ile Ala Val Glu Gly Thr Glu
          260   265   270

Ile Leu Gln Asp Phe Gln Asn Lys Thr Xaa Gly Gln Val Ser Gly Glu
      275   280   285

Ala Ile Lys Met Phe Pro Thr Ile Lys Thr Pro Glu Ala Gly Thr Val
    290   295   300

Ile Thr Thr Ala Asp Glu Ile Glu Leu Glu Gly Ala Thr Gln Trp Pro
305   310   315   320

His Ser Thr Ser Ala Ser Ala Thr Tyr Gly Val Glu Ala Gly Val Val
              325   330   335

Pro Trp Leu Ser Pro Gln Thr Ser Glu Arg Pro Thr Leu Ser Ser Ser
          340   345   350

Pro Glu Ile Asn Pro Glu Thr Gln Ala Ala Leu Ile Arg Gly Gln Asp
      355   360   365

Ser Thr Ile Ala Ala Ser Glu Gln Gln Val Ala Ala Arg Ile Leu Asp
    370   375   380

Ser Asn Asp Gln Ala Thr Val Asn Pro Val Glu Phe Asn Thr Glu Val
385   390   395   400

Ala Thr Pro Pro Phe Ser Leu Leu Glu Thr Ser Asn Glu Thr Asp Phe
          405   410   415

Leu Ile Gly Ile Asn Glu Glu Ser Val Glu Gly Thr Ala Ile Tyr Leu
      420   425   430

Pro Gly Pro Asp Arg Cys Lys Met Asn Pro Cys Leu Asn Gly Gly Thr
      435   440   445

Cys Tyr Pro Thr Glu Thr Ser Tyr Val Cys Thr Cys Val Pro Gly Tyr
    450   455   460

Ser Gly Asp Gln Cys Glu Leu Asp Phe Asp Glu Cys His Ser Asn Pro
465   470   475   480

Cys Arg Asn Gly Ala Thr Cys Val Asp Gly Phe Asn Thr Phe Arg Cys
              485   490   495

Leu Cys Leu Pro Ser Tyr Val Gly Ala Leu Cys Glu Gln Asp Thr Glu
          500   505   510

```
Thr Cys Asp Tyr Gly Trp His Lys Phe Gln Gly Gln Cys Tyr Lys Tyr
        515             520             525

Phe Ala His Arg Arg Thr Trp Asp Ala Ala Glu Arg Glu Cys Arg Leu
        530             535             540

Gln Gly Ala His Leu Thr Ser Ile Leu Ser His Glu Glu Gln Met Phe
545                 550             555             560

Val Asn Arg Val Gly His Asp Tyr Gln Trp Ile Gly Leu Asn Asp Lys
                565             570             575

Met Phe Glu His Asp Phe Arg Trp Thr Asp Gly Ser Thr Leu Gln Tyr
        580             585             590

Glu Asn Trp Arg Pro Asn Gln Pro Asp Ser Phe Phe Ser Ala Gly Glu
        595             600             605

Asp Cys Val Val Ile Ile Trp His Glu Asn Gly Gln Trp Asn Asp Val
        610             615             620

Pro Cys Asn Tyr His Leu Thr Tyr Thr Cys Lys Lys Gly Thr Val Ala
625             630             635             640

Cys Gly Gln Pro Pro Val Val Glu Asn Ala Lys Thr Phe Gly Lys Met
            645             650             655

Lys Pro Arg Tyr Glu Ile Asn Ser Leu Ile Arg Tyr His Cys Lys Asp
            660             665             670

Gly Phe Ile Gln Arg His Leu Pro Thr Ile Arg Cys Leu Gly Asn Gly
        675             680             685

Arg Trp Ala Ile Pro Lys Ile Thr Cys Met Asn Pro Ser Ala Tyr Gln
    690             695             700

Arg Thr Tyr Ser Met Lys Tyr Phe Lys Asn Ser Ser Ser Ala Lys Asp
705             710             715             720

Asn Ser Ile Asn Thr Ser Lys His Asp His Arg Trp Ser Arg Arg Trp
                725             730             735

Gln Glu Ser Arg Arg
            740
```

```
<210> 931
<211> 209
<212> PRT
<213> Homo sapiens
```

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 931
Gly Lys Ala Gly Asp Gln Leu Val Pro Asp Asn Leu Lys Glu Thr Asp
 1   5   10   15

Lys Glu Lys Gly Asn Val Val Leu Lys Gly Glu Xaa Ser Ala Arg Met
                20   25   30

Lys Ile Pro Ser Asn Met Trp Val Glu Ala Trp Glu Thr Ala Lys Pro
            35   40   45

Ile Pro Ala Arg Arg Gln Arg Arg Leu Phe Asp Asp Thr Arg Glu Ala
        50   55   60

Glu Lys Val Leu His Tyr Leu Ala Ile Gln Lys Pro Ala Asp Leu Ala
65   70   75   80

Arg His Leu Leu Pro Cys Val Ile His Ala Ala Val Leu Lys Val Lys
                85   90   95

Glu Glu Glu Ser Leu Glu Asn Ile Ser Ser Val Lys Lys Ile Ile Lys
            100   105   110

Gln Ile Ile Ser His Ser Ser Lys Val Leu His Phe Pro Asn Pro Glu
        115   120   125

Asp Lys Lys Leu Glu Glu Ile Ile His Gln Ile Thr Asn Val Glu Ala
    130   135   140

Leu Ile Ala Arg Ala Arg Ser Leu Lys Ala Lys Phe Gly Thr Glu Lys
145   150   155   160

Cys Glu Gln Glu Glu Glu Lys Glu Asp Leu Glu Arg Phe Val Ser Cys
                165   170   175

Leu Leu Glu Gln Pro Glu Val Leu Val Thr Gly Ala Gly Arg Gly His
            180   185   190

Ala Gly Arg Ile Ile His Lys Leu Phe Val Asn Ala Gln Arg Cys Gln
        195   200   205

Leu

<210> 932
<211> 57
<212> PRT
<213> Homo sapiens

<400> 932
Leu Leu Glu Val Pro Glu Met Gly Leu Thr Phe Ile Lys Gln Ile Ala
1   5   10   15

Tyr Tyr Asp Leu Ala Ala Ala Thr Val Gln Leu His Ile Asn Ser Thr
            20   25   30

Asp Gln Thr Ile Cys Ile Trp His His Leu Leu Thr His Asp Met Arg
            35   40   45

Leu Phe Cys Ile Asn Cys Tyr Asp Gly
        50   55

<210> 933
<211> 125
<212> PRT
<213> Homo sapiens

<400> 933
Ile Lys Glu Glu Ser Asp Tyr His Asp Leu Glu Ser Val Val Gln Gln
1   5   10   15

Val Glu Gln Asn Leu Glu Leu Met Thr Lys Arg Ala Val Lys Ala Glu
            20   25   30

Asn His Val Val Lys Leu Lys Gln Glu Ile Ser Leu Leu Gln Ala Gln
        35   40   45

Val Ser Asn Phe Gln Arg Glu Asn Glu Ala Leu Arg Cys Gly Gln Gly
    50   55   60

Ala Ser Leu Thr Val Val Lys Gln Asn Ala Asp Val Ala Leu Gln Asn
65   70   75   80

Leu Arg Val Val Met Asn Ser Ala Gln Ala Ser Ile Lys Gln Leu Val
                85   90   95

Ser Gly Ala Glu Thr Leu Asn Leu Val Ala Glu Ile Leu Lys Ser Ile
            100   105   110

Asp Arg Ile Ser Glu Val Lys Asp Glu Glu Glu Asp Ser
        115   120   125

<210> 934
<211> 306
<212> PRT
<213> Homo sapiens

<400> 934

```
Pro Thr Phe Ser Arg Ala Val Ala Thr Met Phe Ser Arg Ala Gly Val
 1               5                 10                  15

Ala Gly Leu Ser Ala Trp Thr Leu Gln Pro Gln Trp Ile Gln Val Arg
            20                  25                  30

Asn Met Ala Thr Leu Lys Asp Ile Thr Arg Arg Leu Lys Ser Ile Lys
         35                  40                  45

Asn Ile Gln Lys Ile Thr Lys Ser Met Lys Met Val Ala Ala Ala Lys
      50                  55                  60

Tyr Ala Arg Ala Glu Arg Glu Leu Lys Pro Ala Arg Ile Tyr Gly Leu
 65                  70                  75                  80

Gly Ser Leu Ala Leu Tyr Glu Lys Ala Asp Ile Lys Gly Pro Glu Asp
               85                  90                  95

Lys Lys Lys His Leu Leu Ile Gly Val Ser Ser Asp Arg Gly Leu Cys
            100                 105                 110

Gly Ala Ile His Ser Ser Ile Ala Lys Gln Met Lys Ser Glu Val Ala
         115                 120                 125

Thr Leu Thr Ala Ala Gly Lys Glu Val Met Leu Val Gly Ile Gly Asp
      130                 135                 140

Lys Ile Arg Gly Ile Leu Tyr Arg Thr His Ser Asp Gln Phe Leu Val
145                 150                 155                 160

Ala Phe Lys Glu Val Gly Arg Lys Pro Pro Thr Phe Gly Asp Ala Ser
               165                 170                 175

Val Ile Ala Leu Glu Leu Leu Asn Ser Gly Tyr Glu Phe Asp Glu Gly
            180                 185                 190

Ser Ile Ile Phe Asn Lys Phe Arg Ser Val Ile Ser Tyr Lys Thr Glu
         195                 200                 205

Glu Lys Pro Ile Phe Ser Leu Asn Thr Val Ala Ser Ala Asp Ser Met
      210                 215                 220

Ser Ile Tyr Asp Asp Ile Asp Ala Asp Val Leu Gln Asn Tyr Gln Glu
225                 230                 235                 240
```

```
Tyr Asn Leu Ala Asn Ile Ile Tyr Tyr Ser Leu Lys Glu Ser Thr Thr
                245                 250             255

Ser Glu Gln Ser Ala Arg Met Thr Ala Met Asp Asn Ala Ser Lys Asn
            260             265             270

Ala Ser Glu Met Ile Asp Lys Leu Thr Leu Thr Phe Asn Arg Thr Arg
        275             280             285

Gln Ala Val Ile Thr Lys Glu Leu Ile Glu Ile Ile Ser Gly Ala Ala
    290             295             300

Ala Leu
305
```

<210> 935
<211> 135
<212> PRT
<213> Homo sapiens

<400> 935
```
Gly Ala Leu Cys Ala Ala Ser Val Pro Arg Cys Val Trp Ser Ser Ala
  1             5                 10                  15

Gly Val Val Ala Leu Phe Glu Glu His Cys Ala Pro Leu Val Trp Val
            20              25              30

Tyr Thr Tyr Glu Cys Cys His Tyr Met Cys Ser Ala Leu Leu Ser Leu
        35              40              45

Ser Cys Pro Cys Pro Ala Pro Ser Glu Arg Ala Ala Gly Leu Cys Cys
    50              55              60

Arg Leu Val Val Pro Cys His Lys Gly Met Pro Arg Leu Thr Asp Leu
 65              70              75              80

Ser Val Lys Thr Lys Asp Val Trp Glu Ile Pro Arg Glu Ser Leu Gln
            85              90              95

Leu Ile Lys Arg Leu Gly Asn Gly Gln Phe Gly Glu Val Trp Met Gly
            100             105             110

Met Leu Arg Leu Asn Tyr Ser Leu Ile Ser Phe Pro Val Trp Lys Ile
        115             120             125

Pro Asn Thr Lys Asp Gly Arg
    130             135
```

890

<210> 936
<211> 284
<212> PRT
<213> Homo sapiens

<400> 936

Leu	Ser	Gly	Thr	Thr	Tyr	Ala	Arg	Ala	Cys	Arg	Ser	Gln	Cys	Ala	Ser
1				5					10					15	

| Ala | Ala | Gly | Gly | Cys | Thr | Gly | Gly | Ala | Gly | Gly | Gly | Gly | Gly | Gly | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| Gly | Gly | Trp | Gly | Gly | Ala | Gly | Gly | Lys | Cys | Cys | Asp | Ala | Val | Pro | Gly |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| Arg | Gly | Arg | Arg | Val | Glu | Ala | Glu | Tyr | Gln | Phe | Pro | Ser | Gly | Lys | Ala |
| | 50 | | | | 55 | | | | | 60 | | | | | |

| Ala | Met | Ala | Ile | Phe | Ser | Val | Tyr | Val | Val | Asn | Lys | Ala | Gly | Gly | Leu |
| 65 | | | | 70 | | | | | 75 | | | | | 80 | |

| Ile | Tyr | Gln | Leu | Asp | Ser | Tyr | Ala | Pro | Arg | Ala | Glu | Ala | Glu | Lys | Thr |
| | | | 85 | | | | | 90 | | | | | 95 | | |

| Phe | Ser | Tyr | Pro | Leu | Asp | Leu | Leu | Leu | Lys | Leu | His | Asp | Glu | Arg | Val |
| | | | 100 | | | | 105 | | | | | 110 | | | |

| Leu | Val | Ala | Phe | Gly | Gln | Arg | Asp | Gly | Ile | Arg | Val | Gly | His | Ala | Val |
| | | 115 | | | | 120 | | | | | 125 | | | | |

| Leu | Ala | Ile | Asn | Gly | Met | Asp | Val | Asn | Gly | Arg | Tyr | Thr | Ala | Asp | Gly |
| | 130 | | | | 135 | | | | | 140 | | | | | |

| Lys | Glu | Val | Leu | Glu | Tyr | Leu | Gly | Asn | Pro | Ala | Asn | Tyr | Pro | Val | Ser |
| 145 | | | | 150 | | | | | 155 | | | | | 160 | |

| Ile | Arg | Phe | Gly | Arg | Pro | Arg | Leu | Thr | Ser | Asn | Glu | Lys | Leu | Met | Leu |
| | | | 165 | | | | | 170 | | | | | 175 | | |

| Ala | Ser | Met | Phe | His | Ser | Leu | Phe | Ala | Ile | Gly | Ser | Gln | Leu | Ser | Pro |
| | | | 180 | | | | 185 | | | | | 190 | | | |

| Glu | Gln | Gly | Ser | Ser | Gly | Ile | Glu | Met | Leu | Glu | Thr | Asp | Thr | Phe | Lys |
| | | 195 | | | | 200 | | | | | 205 | | | | |

| Leu | His | Cys | Tyr | Gln | Thr | Leu | Thr | Gly | Ile | Lys | Phe | Val | Val | Leu | Ala |
| | 210 | | | | 215 | | | | | 220 | | | | | |

| Asp | Pro | Arg | Gln | Ala | Gly | Ile | Asp | Ser | Leu | Leu | Arg | Lys | Ile | Tyr | Glu |

225   230   235   240

Ile Tyr Ser Asp Phe Ala Leu Lys Asn Pro Phe Tyr Ser Leu Glu Met
            245   250   255

Pro Ile Arg Cys Glu Leu Phe Asp Gln Asn Leu Lys Leu Ala Leu Glu
                260   265   270

Val Ala Glu Lys Ala Gly Thr Phe Gly Pro Gly Ser
        275   280

<210> 937
<211> 338
<212> PRT
<213> Homo sapiens

<400> 937
Pro Val Ser Pro Leu His Arg Glu Glu Gly Asp Lys Trp Gly Glu Val
  1   5   10   15

Trp Cys Gln Met Gly Trp Arg Arg Lys Arg Val Pro Gln Arg Gly Arg
                20   25   30

Lys Ala Pro Pro Pro Gln Leu His Gly Asn Ile Asn Asn Leu Tyr Phe
            35   40   45

Pro Ile Arg Trp Arg Asp Arg Leu His Trp Asp Ser Pro Asn Pro Ala
    50   55   60

Ala Glu Cys Gln Arg Pro Arg Ser Thr Leu Val Ser Arg Lys Pro Gly
 65   70   75   80

Pro Gly Arg Ile Thr Trp Asp Glu Leu Ala Ala Ser Gly Leu Pro Ser
                85   90   95

Cys Asp Ala Ala Val Asn Leu Ala Gly Glu Asn Ile Leu Asn Pro Leu
            100   105   110

Arg Arg Trp Asn Glu Thr Phe Gln Lys Glu Val Leu Gly Ser Arg Leu
        115   120   125

Glu Thr Thr Gln Leu Leu Ala Lys Ala Ile Thr Lys Ala Pro Gln Pro
        130   135   140

Pro Lys Ala Trp Val Leu Val Thr Gly Val Ala Tyr Tyr Gln Pro Ser
145   150   155   160

Leu Thr Ala Glu Tyr Asp Glu Asp Ser Pro Gly Gly Asp Phe Asp Phe
                165   170   175

Phe Ser Asn Leu Val Thr Lys Trp Glu Ala Ala Ala Arg Leu Pro Gly
        180   185   190

Asp Ser Thr Arg Gln Val Val Val Arg Ser Gly Val Val Leu Gly Arg
        195   200   205

Gly Gly Gly Ala Met Gly His Met Leu Leu Pro Phe Arg Leu Gly Leu
        210   215   220

Gly Gly Pro Ile Gly Ser Gly His Gln Phe Phe Pro Trp Ile His Ile
225   230   235   240

Gly Asp Leu Ala Gly Ile Leu Thr His Ala Leu Glu Ala Asn His Val
                245   250   255

His Gly Val Leu Asn Gly Val Ala Pro Ser Ser Ala Thr Asn Ala Glu
        260   265   270

Phe Ala Gln Thr Phe Gly Ala Ala Leu Gly Arg Arg Ala Phe Ile Pro
        275   280   285

Leu Pro Ser Ala Val Val Gln Ala Val Phe Gly Arg Gln Arg Ala Ile
        290   295   300

Met Leu Leu Glu Gly Gln Lys Val Ile Pro Arg Arg Thr Leu Ala Thr
305   310   315   320

Gly Tyr Gln Tyr Ser Phe Pro Glu Leu Gly Ala Ala Leu Lys Glu Ile
                325   330   335

Val Ala

<210> 938
<211> 321
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (164)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (220)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (221)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (238)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (263)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (267)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (268)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 938
Cys Gln Glu Trp Val Pro Asp Arg Glu Ser Tyr Val Ser His Met Lys
 1               5                  10                  15

Lys Ser His Gly Arg Thr Leu Lys Arg Tyr Pro Cys Arg Gln Xaa Glu
             20                  25                  30

Gln Ser Phe His Thr Pro Asn Ser Leu Arg Lys His Ile Arg Asn Asn
         35                  40                  45

His Asp Thr Val Lys Lys Phe Tyr Thr Cys Gly Tyr Cys Thr Glu Asp
         50                  55                  60

Ser Pro Ser Phe Pro Arg Pro Ser Leu Leu Glu Ser His Ile Ser Leu
 65                  70                  75                  80

Met His Gly Ile Arg Asn Pro Asp Leu Ser Gln Thr Ser Lys Val Lys
                 85                  90                  95

Pro Pro Gly Gly His Ser Pr  Gln Val Asn His Leu Lys Arg Pro Val
             100                 105                 110
```